CO 1117-

CO 1117

LIMA LOCOMOTIVE WORKS INCORPORATED

LIMA, OHIO, U. S. A.

Direct Locomotive CARD INDEX

Class 4-8-2 Dept. ENGINEERING

PENNSYLVANIA R. R.

M1A CLASS.

ORDER No.	SHOP NUMBERS	DATE	DRAUGHTSMAN
25 ENG. CO. 1117	7443 to 7467	INDEX ISSUED - 11/21-29 ORDER RECD 10/24 1929.	E. J. DAKES
		19	
		19	
		19	
		19	

FORM LED. 30

CD-1117

INDEX TO CLASSIFICATION OF DRAWINGS

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10	Ash-pan and Oil-pan.
11	Axles.
12	Bell and Ringer.
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	Blower Pipe Elbow—See 63.
13	Boilers.
14	Boiler Details and Attachments—Tubes and Flues.
	Mallet Cylinder and Bearing Saddles.
	Boiler Checks—See 55.
15	Bolts and Nuts, Studs, Pins and Bushings.
	Booster—See 99.
16	Boxes, Driving and Details.
17	Boxes, Engine Truck, Trailing.
18	Brackets, Air and Steam Gauge Brackets.
19	Brake Equipment, Operating, Air Signal, Air Pump Bracket, Air Reservoirs.
20	Brake Equipment, Foundation.
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21	Bumpers and Details.
	By-Pass Valve—See 34.
22	Cabs.
23	Cab Details, Apron, Brackets, Door Fixtures, Ventilator, etc.
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	Cab Lamp—See 54.
	Cab Tool Box—See 23.
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	Combination Lever—See 58.
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33	Cylinder Compound Attachment, Intercepting, Reducing and Starting Valves, Receiver Pipe.
34	Cylinder By-Pass, Relief, Vacuum and Drifting Valves.
	Cylinder Saddles, Mallet Engines—See 14.
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36	Dome—Cap, Casings and Ring.
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	Driving Spring Saddle—See 77.
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43	Erecting Cards—Cross Sections.
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	Fire Box Ring—See 14.
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47	Frame Details, Foot Plate, Crossties, Filling Castings, Waist Sheets, Furnace Bearers.
49	Gauges, Templates and Jigs.
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51	Grate Arrangement.
52	Grate Details.
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	Lamps—See 54.
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	Smoke Consumer—See 45.
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77	Spring Rigging.
	Sprinkler—See 64.
	Steam Chests—See 32.
78	Steam Gauge, Safety Valve and Turrets.
	Steam Heat—See 64.
79	Steam Pipes and Tee Heads.
	Steps—See 53.
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	Superheater Flues—See 14.
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	Tires—See 95.
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	Tube Setting—See 14.
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94	Valves, Distribution—Stems, Rods, Valve Rod, Crosshead and Packing.
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97	Preliminary Designs and Propositions.
98	Clearance and Wheels Base Diagrams.
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ADDITIONS AND CHANGES

ADDITIONS TO BE MADE IN BLACK INK AND CHANGES IN RED INK

Date	PAGE	ITEMS	Check
11-27-29	40	6	S
"	43	33-34. 37	S
"	35	22-23-24 30.	S
"	8	9	S
"	37	36-37-38-39	S
"	14	30-31-32-33.	S
"	13	41-58	S
"	21	1	S
"	29	19	S
"	37	60-61. 50-51.	S
"	28	44	S
"	30	8-9	S
"	30	11-TO 31-INC.	S
11-29-29	13	29-30-31	S
"	11	51	S
11-30-29	31	41	S
"	32	10-11-14-15	S
	39-	24	S
12-2-29.	55	2 TO 55 INCLOSIVE.	S
"	37	42-43	S
"	27	24	S
"	11	22- TO 28 INC.	S
12-3-29	53	9	S
12-3-29	21	18	S
"	23	12-13	S
"	47	39-40-41-42	S
"	52	21-22-29	S
"	52	35-36-37-38-39	S
"	52	43 TO 48 inc.	S
"	52	58 TO 62 inc.	S
"	30	32	S
"	33	53-54-55-59-~~60~~-61	S
"	28	48.	S
"	12	5-6-7-8.	S
12/4/29.	30	6.	S
"	43	49	S
"	39	29	S
"	26-	10	S
"	50-	44	S
"	47	45-54-55-56	S
"	6	37	S
12/4/29	38	1- TO 35 INCLUSIVE. Released 1/15/30	S
12-4-29	38	42-TO 53 INC. Released 1/14/30.	S
"	47	31-43.-44	S
"	50	39	S
12-5-29	25	32-33	S
12-6-29	34	1-TO 35 INC	S
"	9	53-54-55.	S
12-7-29	37	27-28	S
	46	29-36. inclusive.	S
12-9-29	25	34	S
12-10-29	21	11	S
12/10/29	10	58-59	S
"	11	3-4-6	S
"	30	3-4	S
"	22	43	S
"	37	18-19-20-14-15-16	S
"	46	28	S
"	36	31-32-33	S

Date	ITEMS	Check
12-11-29	25 35-36	S
12-11-29	37- 8-9	S
"	39- 6	S
12-12-29.	18 - 42-51 inclusive	S
"	41 - 56	S
12/12/29	39 - 25	S
12/13/29	30- 7.	S
"	28- 41. 37 38	S
"	21- 58-59	S
"	27- 27	S
12/16/29.	36-37-38-39	S
"	37-24.	S
"	29-32	S
"	30-1-2	S
12/17/29	-14-11-12-13-14-15.	S
"	14-34 TO 38- INC	S
"	52-18. 13	S
"	28-43.	S
"	29-20	S
12/17/29	30-42	S
12/18/29	28-61-62. 58. 59. 60	S
12/18/29	6- 38 TO 43	S
"	10-56-57	S
"	12- 53-54-55-56-61	S
"	15-56-57	S
"	30-48-49	S
"	89-31-32	S
"	40-9	S
12/18/29	30- 5	S
12-19-29	35-32-33-34	S
12-19-29	39-1-2-3	S
"	16-21	S
"	12-23	S
"	55-57	S
"	46-40	S
12/20/29	17-57	S
12/22/29	40- TO 61. INCLUSIVE.	S
"	5-38	S
12/26/29.	23-20	S
12/30/29	30-10	S
1-4-30	6-44-45	S
1-6-30	35- 35 TO 41. INC.	S
"	47-33	S
1-13-30	7-53.	S
1-14-30	48- 40	S
"	33-52-51.	S
1-14-30.	38- 42-53 inclusive	S
1-15-30	38-1 TO 37 inclusive.	S
"	45-60	S
1-20/30	31-12-13.	S
"	33-9-10-15.	S
"	36-17 TO 23 inclusive.	S
"	35-58-59-60-61	S
"	13-7	S
"	4-49	S
1/22/30-	17-46-47-48	S
1-22-30.	36-24 TO 29 inclusive.	S
1-23/30.	7-52	S
"	22-41-45	S

Date	Page	ITEMS	Check
11/27-29.	37	58-59	S
"	38	54-58	S
"	4	7	S
"	9	56	S
"	17	19-22	S
11-29-29	5	29	S
"	29	51.	S
11-30-29	42	23	S
12/3-29	9	40-41-42-43	S
12-3-29	11	37-38-39-40	S
12-4-29	21	18 L	S
12-4-29.	7	17	11
"	17	35 L	11
12-5-29	38	40-41	11
"	24	13 L	11
"	5	29.	S
"	26	47	S
"	21	22	S
12/6/29	18	55- To 61. ~~HOLD UP~~ Released	S
12-6-29	28	12-13-14.	11
"	30	11	11
12/6-29	43	22-To ~~HOLD UP 44 INC~~ Released	11
"	26	48, 49-50, 61-62	11
"	37	58-59. ~~HOLD UP~~ Released.	11
"	~~43~~	~~13-TO 18 INC HOLD UP~~ Released	11
12-7-29.	46	52	S
12-10/29	17	19-22.	S
12-11-29	22	10	S
12-12-29	18	55 To 61. Cancelled.	S
"	39	44	S
12/12/29	22	49 HOLD UP & REPORT ON WORK DONE Release	S
"	~~44~~	~~53 TO 62 INCLUSIVE HOLD UP. WORK.~~ Released	S
"	45	~~4 5 6 Hold up all work.~~ Released.	S
12/13/29	48	25	S
12-16-29	23	45	S
"	6	6	S
"	5	29-40-41-42-43-44-45-46-47	S
"	5	49-50	S
"	8	44	S
"	39	4	S
"	47	28	S
12-18/29	12	4	S
"	14	34-35-36-37-38	S
12-20-29	5	29	S
"	28	45	S
"	30	16	S
"	4	51-60	S
"	16	61	S
"	20	51	S
"	17	2	S
"	39	41	S
"	42	13-14	S
"	51	23	S
12/22/29	39	4	S
"	8	27-28	S
"	5	37-53	S
12/26/29	~~43~~	~~22~~ To 44 Release Hold up	S
"	43	13 To 18 Release Hold up	S
"	20	57	S
"	5	4 To 8. Cancelled	S

ADDITIONS AND CHANGES

ADDITIONS TO BE MADE IN BLACK INK AND CHANGES IN RED INK

Date	ITEMS Page Item	Check
12/30/29	5 - 21 To 23 Cancelled	S
"	5 - 16 To 18 Cancelled	S
"	5 - 12 - Cancelled	S
1-3-30	6 - 1 - 34 Cancelled	S
1-6-30	17 - 19 - 22	S
1-6-30	30 - 19	S
"	30 - 7	S
"	8 - 59	S
"	10 - 10	S
"	47 - 23 - 21 - 25 - 26	S
1-11-30	37 - 58 - 59 Release Hold up	S
"	35 - 43 - 44 - 45	S
"	39 - 26 - 27 - 28 -	S
11-13-30	8 - 27 - 28. Release Hold up on Foundry.	S
"	48 - 25	S
11-14-30	5 - 36	S
"	52 - 3	S
"	41 - Release Items 38 - 39	S
"	11 - 33 - 34	S
"	47 - 31	S
"	41 - 50 - Release Hold up as changed.	S
1-15-30	39 - 1 - 2 - 3	S
1-16-30	5 - 30	S
1-17-30	52 - 29	S
"	52 - 44 To 48 inclusive.	S
1-17-30	32 - 14	S
1-17-30	17 - 36 - 41 - 42. Release as Changed.	S
1-18-30	17 - 19 - 22	S
1-20-30	41 - 37 - Release as Changed	S
1-20-30	52 - 58 - 59 - 60 - 62 Cancel.	S
"	31 - 17 - 18 Release as Changed.	S
"	30 - 14	S
"	36 - 20 - 21 - 22 - 23	S
1-22-30	35 - 58 - 59 - 60 - 61	S
"	9 - 58	S
"	10 - 1	S
1-27-30	22 - 49 Released as Changed	S
1-27-30	44 - 60 - 61 - 62 Release as Changed.	S
"	45 - 4 - 5 - 6. Release	S
1-28-30	39 - 1	S
"	12 - 56 - 61	S
"	39 - 3	S
"	17 - 19 - 22	S
"	22 - 48	S
"	43 - 49	S
1-29-30	8 - 61	S
"	44 - 53 To 59 Cancelled.	S
1-30-30	45 - 11	S
1-31-30	11 - 26	S
"	23 - 45	S
"	52 - 44	S
"	27 - 17	S
"	52 - 54	S
2/3/30	19 - 22. check up	
"	51 - 23	S
"	23 - 20	S
"	34 - 32 31 - 32 - 33 - 34 35 - 36	S
"	34 - 57 - 58 - 59.	S
"	33 - 22 - 23 - 24	S
"	34 4 - 18 - 20	S

Date	ITEMS Page Item	Check
1-23-30	37 - 1 - 2 - 3 - 4.	S
"	33 - 25	S
1/24/30	33 - 11	S
1-28-30	13 - 10 - 6	S
"	12 - 57	S
"	13 - 18 - 19 - 20 - 21 - 22	S
"	33 - 19 - 22 - 23 - 24.	S
"	37 - 10 - 11 - 12	S
"	37 - 5 - 6 - 7	S
"	34 - 54 TO 59 INC	S
"	35 - 9 - TO 12	S
1-29-30	8 - 34 - 35 - 36.	S
"	44 - 29 - TO 36 INC.	S
"	44 - 28	S
"	27 - 20	S
1-30/30	11 - 31 - 32	S
"	40 - 51	S
2-1-30	8 - 37	S
"	34 - 49 - 50 - 51	S
2-3-30	28 - 5 - 6	S
2-3-30	25 - 41 - 47	S
"	34 - 41 - 48 INC	S
"	34 - 52 - 53 - 60	S
"	34 - 39 - 40	S
"	18 - 52	S
"	34 - 36	S
2-4-30	28 - 27 - 33. inclusive	S
"	37 - 29	S
2-6-30	30 - 33	S
2-10-30	39 - 30	S
2/12-30	36 - 34 - 35 - 36.	"
"	30 - 60.	"
2-12-30	29 - 57	S
"	29 - 58	S
2-18-30	47 - 34.	S
2-13-30	34 - 37 - 38.	S
2-14-30	- 21 - 15.	S
2-18-30	55 - 59 - 60 - 61 - 62	S
2-19-30	35 - 21 - 25	S
2-21-30	55 - 58	S
2-24-30	38 - 60 - 61	S
2-22-30	28 - 51	S
2-25-30	27 - 35	S
2-28-30	23 - 14 - 15	S
"	35 - 55 - 56 - 57	S
3-1-30	28 - 35	S
3-6-30	36 30	S
3-8-30	39 - 33	S
"	28 54	S
3-14-30	36 - 14 - 15 - 16	S
3-19-30	9 - 31	S
3/24/30	39 - 11 - 12	S

Date	ITEMS	Check
2-3-30	12 - 44	S
2-4-30	37 - 27 - 28	S
2-5-30	24 - 42	S
2/5/30	24 - 41 - 54	S
"	24 - 21	S
"	23 - 45	S
"	6 - 25 - 26	S
"	24 - 56	S
2-6-30	22 - 49	S
2-10-30	39 - 2 - 26 - 27 - 28	S
"	46 54 - 55 - 56 - 57 - 58 - 59	S
"	10 - 45 - 46 - 47	S
"	42 - 7 - 8	S
2/18/30	47 - 44	S
2/14-30	47 - 29	S
2/18/30	35 - 47 - 48 - 49 - 50	S
2/19-30	35 - 54	S
"	35 - 14 - 15 - 16	S
"	35 - 20	S
2/22/30	39 - 4	S
2/26-30	44 - 53 - To 59 Cancelled	S
2-27-30	50 - 19	S
2-28-30	29 - 29	S
"	5 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 49 - 50	S
"	30 - 37	S
"	10 - 10	S
"	23 - 20	S
"	17 - 19 - 22	S
"	46 - 54 - To 59 inclusive	S
3/2/30	28 - 27	S
3/3/30	38 - 11	"
3/3-30	39 - 2 - 3	"
3-4-30	22 - 27	S
"	30 - 20	S
"	39 - 24	S
"	29 - 41	S
3/18/30	30 - 14	S
3/21/30	12 - 44	S
3/24/30	17 - 19 - 22	S

LED 30-4

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 10—ASH PAN								
	1	Ash ~~Oil~~ Pan ARRANGMENT.	1-SET.	PRR. PT # C-88488-~~A~~B.	PLATE. MAT ORD IN P.D					
	2	" " Material Bill								
	3	" " Hopper DOOR FRAME	3	E-88477-A 102-A-211				X-18829 10-276		
	4	" " " DOOR FRAME	1	E-81148-A 102-A-212				X-17980 10-277		
	5	" " Door	4	E-81147-B 102-A-210			X-17979 10-275			
	6	" " " ~~Hinge~~ DOOR	2	PRR. PT # E-76529-A	PLATE MAT ORD. IN P.D					
	7	" " " ~~Frame~~ DEVELOPMET SHEETS	1-SET	P.RR. PT. B C-88487-A-	MAT. ORD IN P.D					
	8	" " ~~Damper~~ SUPPORTS	1R/1L	D-88481-A 102-A-152	PLATE. MAT. ORD. IN. P.D.	102-A-152				
	9	" " " ~~Rigging~~ " "	1R/1L	102-B-152	" " "	" 102-B-152				
	10	" " " ~~Handle~~ " "	2	102-C-152		102-C-152				
	11	" " " ~~Crank~~ " "	2	102-D-152		102-D-152				
	12	" " " " " "	2	102-E-152		102-E-152				
	13	" " " ~~Hinge~~ " "	2	102-F-152		102-F-152				
	14	" " " ~~Bracket~~ " "	2	102-H-152		102-H-152				
	15	" " " ~~Hanger~~ HOPPER DOOR BRACKET-	8	F-61956-C 102-A-213			X-14977 10-279			
	16	" " " ~~Bracket~~ SUPPORTS	2	102-J-152		102-J-152				
	17	" " " ~~Lug~~ " "	1R/1L	102-K-152		102-K-152				
	18	" " " ~~Bracket~~ SHAFT	2	D-88481-A 102-A-214	1" DIA. X 31" LONG ← Note for future See D-88481-C					
	19	" " " ~~Rear~~ SHAFT	2	102-B-214	1" DIA X 33 3/4" LONG	" "	" "	" "		
	20	" " " ~~Lever~~ ROD.	2	102-C-214		102-C-214				
	21	" " " ~~Rod~~ ROD.	2	102-D-214		102-D-214				
	22	" " " " LEVER	1	102-E-214		102-E-214				
	23	" " " ~~Stop~~ ROD. LINK	4	102-F-214		102-F-214				
	24	" " " " ~~Bearing~~ LINK.	4	102-H-214		102-H-214				
	25	" " ~~Slide~~ LEVER	1	102-J-214		102-J-214				
	26	" " " ~~Rigging~~ PINS.	2	102-K-214		102-K-214				
	27	" " " ~~Rod~~ PINS.	8	102-L-214		102-L-214				
	28	" " " " LINK	4	D-88481-A 102-A-216		102-A-216				
	29	" " " ~~Jaw~~ ROD	2	102-B-216		102-B-216				
	30	" " " ~~Frame~~ COLLAR	3	102-C-216		102-C-216				
	31	" " ~~Operating Shaft~~ PINS	12	102-D-216		102-D-216				
	32	" " " " ~~Arms~~ BRACE.	1	102-E-216		102-E-216				
	33	" " ~~Shaft Bearing~~ PLATE BEARING.	2	102-F-216		102-F-216				
	34	" " ~~Hand Lever~~ SHAFT BEARING.	2	102-H-216		102-H-216				
	35	" " " " Stop								
	36	" " Lock Pin								
	37	" " ~~Operating Cyl.~~ DOOR LEVER LOCKING SUPPORT	1	E-89749-A 102-A-209				X-18999 10-274		
	38	" " " " ~~Heads~~ SHAFT	1	D-88481-A 102-A-215		102-A-215				
	39	" " ~~Piston~~ SHAFT	1	102-B-215		102-B-215				
	40	" " " Rod	1R/1L	102-C-215		102-C-215				
	41	" " " Follower								
	42	" " " " Rings								
	43	" " Supports (REAR)	1R	E-88478-A 102-A-217			X-18830 10-280			
	44	" " " (REAR)	1L	" 102-B-217			X-18831 10-281			
	45	" " Swipe Manifold								
	46	" " Cinder Box								
	47	" " " " " Cover								
	48	" " Brick Work								
	49	" " DOOR LUGS	8	P.RR. PT # E-76529-A	FURNISH BOLT	10-A-290				
	50									
	51	AXLE MARKING. DRIVING.	1-SET.	P.RR.PT. D-75490-~~C~~D						
	52	**GROUP 11—AXLES**								
	53	Axle, Driving—Main	1	D-71275-G 112-A-138	MAT. ORD IN P.D ROUGH TURNED					
	54	" " —F. I. & B.	3	D-71275-G. 112-B-138	" "					
	55	" " PLUGS.	8	112-A-138	STEEL					
	56	" " —Key	8	112-A-138	STEEL					
	57	" Engine Truck	2	E-84413-D 112-A-184	ORD. IN. P.D ROUGH TURNED					
	58	" " " —Collar								
	59	" Trailing "	1	D-71875-D 112-A-137	MAT. ORD. IN P.D ROUGH TURNED					
	60	" Marking — TRAILER & ENGINE TRUCK.	1-SET.	PRR.PT D-75490-~~C~~D						
	61	" TRAILER PLUGS	2	F-73779-G 112-A-137	O.H. STEEL					

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
	0	GROUP 12—BELL ARRANGMENT.	1-SET.	PRR. PT # D-79719-E	—	—	—	—	—	—
	1	Bell	1	P. RR. PT # D-79720-B	ORD. IN. P.D. FURNISHED BY P.R.R ALTOONA SHOPS		—	—	BELL METAL X-453	—
	2	" Clapper	1	E-81681-B	ORD. IN. P. D FUR. WITH BELL RINGER		—	—	—	—
	3	" " Jaw & STEM THRU BELL YOKE.	1	E-81681-B / F-80628-B.	" " "	" " "	" "	—	—	—
	4	" Stand (BABBITTED)	~~#~~	D-79717-B 370-E-37A	—	—	X-20829 12-270-A	—	—	—
	5	" ~~Crank~~ CAP (" ")	~~#~~	" "	—	—	X-3993 12-271	—	—	—
	6	" Washer FURNISHED COMPLETE	~~#~~	F-80197-A 122-A-76	O.H. STEEL	—	—	—	—	—
	7	" Yoke BY. PENNA. R.R.	~~#~~	D-79723-E 123-A-24	—	—	X-17769 12-272	—	—	—
	8	" " Nut	~~#~~	122-B-76	O.H. STEEL	122-B-76	—	—	—	—
	9	" " Shaft	—							
	10	" " Jaw Stem	—							
	11	" Ringer & BODY	1	E-81681-B PURCHASED.	ORD. IN P.D. TRANS. DEV. CORP.	—	—	—	—	—
	12	" " ~~Operating Valve~~ SWIVEL ASSEMBLY.	~~1 SET.~~	E-80194-E 122-A-75	—	Furnished by. P.R.R.	—	—	—	—
	13	" " Bracket								
	14	" Rope Eye	~~3~~	~~F-77757-E 122-A-77~~	~~CAST. ORD IN P.D~~	NOT USED.	Bell chain omitted.	—	—	~~X-6572~~
	15	" " Thimble GLASS BUSHING	~~2~~	~~F-80817-A 122-A-78~~	~~ORD IN P.D. GLASS~~	NOT USED.	See 11. Item 33.34	—	—	—
	16	" " ~~Guide~~ RINGER GASKET (SWIVEL)	~~#~~	122-D-75	LEATHER. ORD. IN P.D	FURNISHED BY. PENNA. R.R	—	—	—	—
	17	" " " ~~Roller~~ " " (" ")	~~#~~	" "	COPPER ORD. IN P.D	"	"	"	"	—
	18	" " ~~Pulley~~ " SPRING (" ")	~~#~~	122-E-75	SPRING STEEL 1/8 DIA. WIRE	"	"	"	"	—
	19	" " " ~~Hanger~~ WOOD BLOCK (ON FRONT OF CAB)	1	F-71107-B 232-A-425.	POPULAR ORD. IN P.D	—	—	—	—	—
	20	" PIPE HOOK BOLT	1	122-C-76	—	122-C-76	—	—	—	—
	21	~~Ring~~ RINGER SWIVEL BODY.	~~#~~	122-B-75	FURNISHED BY. PENNA. R.R.		—	—	X-17838 12-268	FORMULA #4
	22	" " " " CAP.	~~#~~	122-C-75	"	" " "	—	—	X-17839 12-269	" "
	23	" " " " STEM.	~~#~~	122-F-75	STEEL	" " "	—	—	—	—
	24	" CHAIN HOOK	~~#~~	~~F-52270-B 122-A-79~~	~~STEEL WIRE~~	NOT. USED BELL CHAIN OMITTED.	—	—	—	—
	25									
	26									
	27	BELL APPLICATON	—	P. RR. PT # D-79721-H	—	—	—	—	—	—
	28	GROUP 13—BOILER								
	29	Boiler Plan	1	C-89452 ~~#A~~ ~~#B~~ ~~#E~~	—	—	—	—	—	—
	30	" ~~Sections~~ BACK END.	1	A-89533 #D	—	—	—	—	—	—
	31	" Material Bill	1-SET	13M0264 13M0265	ORD. IN P.D.	(SHELLS) (FLANGES)	—	—	—	—
	32	" Stay Bill	1-SET	13M0267	" " "	—	—	—	—	—
	33	" Test Pressure, Water		312½#						
	34	" " " Steam		270#						
	35	" Working "		250#						
	36	STAYBOLT SPACING IN THROAT	1-SET	C-79284 #F	—	—	—	—	—	—
	37	BOILER FLUE SHEETS.	1-SET	D-83003 #D	—	—	—	—	—	—
	38	BUTTON HEAD STAYBOLT TAPER	1-SET.	F-90484-A	—	—	—	—	—	—
	39	GROUP 14—BOILER DETAILS								
	40	Boiler Bracing GUSSET	6	C-89532 ~~#B~~ #D	PIECE #16	—	—	—	—	—
	41	" ~~Brace Rod Ends~~ " ANGLES.	1-SET	"	" #15	—	—	—	—	—
	42	" BRACES.	1-R 1-L	"	" #1	C-89532 ~~#B~~ #D	—	—	—	—
	43	" " " "	1-R 1-L	"	" #2	"	—	—	—	—
	44	" " " "	1-R 1-L	"	" #4	"	—	—	—	—
	45	" " " "	1-R 1-L	"	" #5	"	—	—	—	—
	46	" " " ~~Legs~~	1-R 1-L	"	" #3	"	—	—	—	—
	47	" CROSS RODS.	110	"	" #7	"	—	—	—	—
	48	" " " " " NUTS.	220	F-83392A	—	—	—	—	—	—
	49	" BUTTON HEAD STAYS.	708	C-89532 ~~#B~~ #D	ORD. IN P.D. PIECE #23	—	—	—	—	—
	50	" RADIAL "	28	" "	PIECE #23A	C-89532 ~~#B~~ #D	—	—	—	—
	51	" EXP. STAYWASHER	232	D-79279G	STICK BRASS	—	—	—	—	—
	52	" " " " " ASSEMBLY	1-SET	D-79279G	—	—	—	—	—	—
	53	" SAFETY VALVE FLANGE	2	~~D-89618A~~ D-89489-A 783B48	ORD. IN P.D.	~~78-310~~	—	—	X-13306 78-310 PHOS. BRONZE	—
	54	" ~~Throat Brace~~ FLUSH FLEXIBLE ASSEMBLY	1-SET	E-87951B	ORD. IN P.D.	—	—	—	—	—
	55	" STAY BOLT SCHEDULE	1-SET	132A139	—	132A139	—	—	—	—
	56	" FLEXIBLE STAYBOLT ASSEMBLY	1-SET	E-89259A	ORD. IN P.D.	—	—	—	—	—
	57	" " " " " "	1-SET	F-89579A	" " "	—	—	—	—	—
	58	" ~~Crown Bars~~ BUTTON HEAD STAY	1-SET	E-87657A	" " "	—	—	—	—	—
	59	" ~~Roof Irons~~ RIVET HEADS.	—	142A275	—	—	—	—	—	—
	60	" ~~Stay Bolt~~ CSK. RIVET FORMS.	—	F-80179A	—	—	—	—	—	—
	61	" FIRE BOX MARKING	—	F-86214A	—	—	—	—	—	—

(Group 14 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 14—BOILER DETAILS (Cont.)								
	1	Boiler ~~Radial Stay~~ ~~GRATE STUD RIVET.~~	~~31~~	~~F-87814 14439~~	~~1" DIA. THREAD.~~	—	—	—	—	—
	2	" TUBE SHEET RING STUDS.	6	F-80031 C	—	—	—	—	—	—
	3	" EXP. ~~Buttonhead~~ STAY NUTS.	232	F-88928 B.	MAT. ORD. IN P.D.	—	—	—	—	—
	4	" ~~Crost Stay~~ SMOKE BOX RING WELDING.	1-SET	F-81568 A	—	F-81568 A	—	—	—	—
	5	" RIVET MATERIAL BILL	1-SET	13M0268	ORD. IN P.D.	—	—	—	—	—
	6	" Smoke Box Ring	1	C-89452 ~~A~~ D	—	14 X 88	—	—	—	—
	7	" Tube Sheet Ring	1	D-80033-D 14ZA276	—	—	X-12926 14-237	—	—	—
	8	" Fire Box Ring	1	C-82716F 14439	—	—	—	X-16502 14-235	—	—
	9	" EXP. ~~STAY~~ SLEEVE STAY NUTS.	1-SET	13M0266A	ORD. IN P.D.	—	—	—	—	—
	10	" INTERNAL PIPE	1-SET	D-78487E	MAT. ORD. IN P.D.	—	—	—	—	—
	11	Boiler ~~Tubes Small~~ " BRACKET.	1	"	PIECE #28A	D-78487E	—	—	—	—
	12	" ~~Flues Large~~ " "	1	"	" #28	"	—	—	—	—
	13	" ~~Combustion Tubes~~ " "	1	"	" #27	"	—	—	—	—
	14	" ~~Stoker Flues~~ " CLAMP.	1	"	" #27	"	—	—	—	—
	15	" Tube Setting (FRONT)	1-SET	F-87664B.	—	—	—	—	—	—
	16	" Flue "	1-SET	E-77802C	—	—	—	—	—	—
	17	" ~~Combustion Tube Setting~~ INTERNAL PIPE BRACKET	1	D-78487E	PIECE #26	D-78487E	—	—	—	—
	18	" ~~Stoker Flue Setting~~ " CLAMP.	1	"	" #26	"	—	—	—	—
	19	" Test Plate	1	F-38799-C 142-A-281	—	—	—	—	X-12018 14-238	JUNK BRASS
	20	" INTERNAL PIPE BRACKET	1	D-78487E	PIECE #25	D-78487E	—	—	—	—
	21	" " " CLAMP.	1	"	PIECE #25	"	—	—	—	—
	22	" ~~Cylinder Saddle (Mallet Engine)~~ " BRKT. PINS.	6	"	FURNISH KEYS.	—	—	—	—	—
	23	" ~~Bearing~~ " " " " COUPLING.	1	F-72181G 552A241	—	—	—	—	X-11383 55-327	—
	24	" Centering Device Saddle								
	25	" Waist Sheet ~~Angle or~~ Tee No. 1	2	E-75895 #D	MAT. ORD. IN P.D.	E-75895-#D	—	—	—	—
	26	" " " " " No. 2	1	E-75896 #D	"	E-75896 #D	—	—	—	—
	27	" GAGE COCK ~~ARRGT.~~	—	D-76536C	—	—	—	—	—	—
	28	" SAFETY VALVE ~~BAFFLE~~ PLATE	1	D-78578D	GROUP #1	—	—	—	—	—
	29	" GAGE COCK PIPE SUPPORT.	1	"	" #3	—	—	—	—	—
	30	" " " " " BRKT.	1	"	" #2	D-78578D.	—	—	—	—
	31	" " " " CASING.	1	"	" #5	—	—	—	—	—
	32	" LOCATION DRY PIPE SUPPORTS.	—	D-78552A.	—	—	—	—	—	—
	33	" METHOD OF SCARFING W. TOP + HIP JOINT	1-SET	F-80500A	—	—	—	—	—	—
	34	" ~~SPECIAL STUD RIVET~~	~~1~~	~~E-87814B. 14439~~	~~1" DIA. THREAD.~~	—	—	—	—	—
	35	" SPECIAL STUD RIVET	1	142A277	—	—	—	—	—	—
	36	" " " " ~~GROUP 15 BOLTS AND NUTS~~	1	142B277	—	—	—	—	—	—
	37	GAGE COCK PIPE CLAMP	1	D-78578D	GROUP #4	—	—	—	—	—
	38	SPLIT KEYS	—	153-A-1	ORD. IN P.D	—	—	—	—	—
	39	" "	—	153-B-1	" "	—	—	—	—	—
	40	" "	—	153-C-1	" "	—	—	—	—	—
	41	" "	—	153-D-1	" "	—	—	—	—	—
	42	" "	—	153-E-1	" "	—	—	—	—	—
	43	" "	—	153-F1	" "	—	—	—	—	—
	44	BOILER SPECIAL STUD RIVETS.	31	142A380	—	—	—	—	—	—
	45	" " " "	3	142B380	—	—	—	—	—	—
	46	METHOD OF ATTACHING STEEL LINER IN DRIV. BOX CAVITIES.	1	142C380 P.R.R. PT	—	—	—	—	—	—
	47	**GROUP 16—BOXES, DRIVING**	—	* F-89828-A	—	—	—	—	—	—
	48	Box—Driving, Main (FACE OF BOX TO BE BABBITTED)	2	D-71210-G. 164-A-4	—	—	—	X-13937 16-388	—	—
	49	" —Brass "	2	164-A-4	CAST. ORD IN P.D	—	—	—	X-14723 16-389	CYPRUS OR PLASTIC BRONZE
	50	" —Cellar "	2	PRR. PT D-77103-G	ORD. IN. P.D	—	—	—	—	—
	51	" — " Pin "	4	164-A-4	TO SUIT BOX	164-A-4	—	—	—	—
	52	" —Driving F. I. & B - (FACE OF BOX TO BE BABBITTED)	6	164-B-4	—	—	—	X-13937 16-388	—	—
	53	" —Brass	6	164-B-4	CAST. ORD IN P.D	—	—	—	X-13940 16-390	CYPRUS OR PLASTIC BRONZE.
	54	" —Cellar	6	P.R.R. PT. D-77103-G.	ORD. IN P.D.	—	—	—	—	—
	55	" — " Pin	12	164-B-4	TO SUIT BOX.	164-B-4	—	—	—	—
	56	" ~~Driving~~ LINERS (MAIN)	4	164-A-4	½"-STEEL PLATE	—	—	—	—	—
	57	" ~~Brass~~ LINERS (F. I & B)	12	164-B-4	½"-STEEL PLATE	—	—	—	—	—
	58	" —Cellar	—							
	59	" — " Pin	—							
	60	" —Brass, Plugs (MAIN)	4	164-A-4	STICK BRASS	—	—	—	—	—
	61	" " " (F. I & B)	12	164-B-4	" "	—	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 16—BOXES, DRIVING (Cont.)								
	1	Box—Brass Plugs	—							
	2	" — " Pressed in Box (Tons)	—							
	3	" —Hub Liner	—							
	4	" — " "	—							
	5	" — " "	—							
	6									
	7									
	8									
	9									
	10									
	11	**GROUP 17—BOXES, TRUCK**								
	12	Box—Engine Truck	4	D-70811-L 173-A-40	—	—	X-16823 17-340	—	—	—
	13	" —Cellar, Engine Truck	4	D-70499-J 173-A-41	—	—	X-16440 17-343	—	—	—
	14	" " Bolt " "	4R 4L	E-84943-B 172-A-102	DROP FORGED ORD. IN P.D	—	—	—	—	—
	15	" —Brass " " (BABBITTED)	4	E-76904-D 172-A-101	CAST. ORD IN. P.D	—	—	—	X-11645 17-186-A	PHOS. BRONZE. —
	16									
	17	Box— Trailing Truck (FACE OF BOX TO BE BABBITTED)	2	D-78539-~~D~~E. 174-A-9	—	—	X-14898 17-341-A	—	—	—
	18	" —Cellar " "	2	E-38191-B 173-A-43	—	—	X-11933 17-188	—	—	—
	19	" —~~Binder~~ " " CELLAR BOLTS.	4	174-A-9	—	—	—	—	—	—
	20	" — " Bolt " "								
	21	" —Brass " " (BRASS TO BE LINED)	2	174-A-9	CAST. ORD IN P.D.	—	—	—	X-14899 17-342-PHOS. BRONZE	—
	22	" —Lid " "	2	E-34722-C 440-D-382-A	CAST. ORD. IN P.D.	—	—	—	—	X-11121
	23	" " Spring " "	2	" "	MAT. ORD IN P.D.	—	—	—	—	—
	24	Box— Trailing Truck CAP (FOR LID.	2	D-34661-D 173-A-44	—	—	X-11295 17-189	—	—	—
	25	" —~~Cellar~~ " " KEY. RIGHT	2	F-34658-E 440-D-373	—	—	—	X-11116 41-117	—	—
	26	" —~~Binder~~ " " " LEFT.	2	" "	—	—	—	X-11117 41-118	—	—
	27	" —~~" Bolt~~ " " COVER PLATE.	2	174-A-9	PLATE. MAT ORD. IN P.D	—	—	—	—	—
	28	" —~~Brass~~ " " BOXLID PIN	2	E-69926-C 172-A-106	—	172-A-106	—	—	—	—
	29	" —Lid " "								
	30	" " Spring " "								
	31	ENGINE TRUCK CELLAR PLATE	4	172-B-103	STEEL PLATE	—	—	—	—	—
	32	" " " LEATHER	4	172-A-103	LEATHER. MAT. ORD. IN P.D	—	—	—	—	—
	33	" " " WASHERS	8	172-C-103	O.H. STEEL	—	—	—	—	—
	34	" " " "	4	172-D-103	O.H. STEEL	—	—	—	—	—
	35	" " " PLATE APPLICATION —		P.R.R. PT F-84163-B	—	—	—	—	—	—
	36	**GROUP 18—Brackets**								
	37	~~Gauge~~ Stand	1	D-89757-A. 183-A-15	—	—	X-19002 18-488	—	—	—
	38	" " " Bracket	1	D-89925-A 182-B-239	—	182-B-239	—	—	—	—
	39	Feed Water Heater Gauge Stand	—							
	40	" " " " " Bracket	—							
	41	Pyrometer Gauge Stand	—							
	42	" " " Bracket	—							
	43	Steam Gauge Stand	—							
	44	" " " Bracket	—							
	45	" " " Plate	—							
	46	Stoker Gauge	—							
	47	" Gauge Stand Bracket	—							
	48	Intercepting Valve Gauge Bracket	—							
	49	WATER COLUMN SUPPORT BRACKET.	2	D-89925-A 182-A-239	—	182-A-239	—	—	—	—
	50	BLOWER OPERATING ROD BRACKET STUDS	3	D-89925-A 182-C-239	—	182-C-239	—	—	—	—
	51									
	52	ENGINE TRUCK BRAKE PLAN.	1-SET.	AM.B.CO PT.#1555. ORD. IN. P.D	—	—	—	—	—	—
	53	**GROUP 19—BRAKE, OPERATING**	1-SET	A.M.B.CO.PT# 1554	ORD IN P.D	—	—	—	—	—
	54	Brake Valve	—							
	55	" " Body	—							
	56	" " Cap	—							
	57	" " Nut	—							
	58	" " Follower	—							
	59	" " Handle	—							
	60	" " Bracket—Automatic	1	D-82034-A. 193-A-124	PLATE. MAT. ORD. IN P.D	—	—	—	—	—
	61	" " " —Independent	1	" "	—	19-A-122	—	—	—	—

(Group 19 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 19—BRAKE, OPERATING (Cont.)								
	1	Feed Valve Bracket	—							
	2	Distributing Valve Bracket	—							
	3	Control " "	—							
	4									
	5	Brake Relief Valve	—							
	6	" " " Cap	—							
	7	" " " Stem	—							
	8	" " " Spring	—							
	9	DRAIN COCK CON. FOR MAIN RES.	3	192-A-240. P.R.R.P.T	O.H. STEEL	—	—	—	—	—
	10	Main Reservoir	2.	D-77415-H.	ORD. IN. P.D	—	—	—	—	—
	11	" "								
	12	" " Supports (FRONT-SMOKE BOX)	2	E-72443-C 192-A-158	—	—	X-16774 19-248	—	—	—
	13	" " "	1	E-85073-A 192-A-157	—	—	X-17512 19-245	—	—	—
	14	" " "	1	E-85073-A 192-B-157	—	—	X-17513 19-246	—	—	—
	15	" " "								
	16	" " "								
	17	" " STRAPS	✱	E-72822-A 192-B-159	See 633-B-30. Page 38-44	~~19-A-112~~	—	—	—	—
	18	" " ~~Blocks~~ STRAPS	2	" "	—	19-A-113	—	—	—	—
	19	" " Straps	2	E-72822-A 192-A-159	—	19-A-110	—	—	—	—
	20	" " "	2	" "	—	19-A-109	—	—	—	—
	21	" " "	2	" "	—	19-A-111	—	—	—	—
	22	" " " U Bolts	—							
	23	" " " " "	—							
	24	" " " " "	—							
	25	Air Turret	—							
	26									
	27	Air Pump Bracket FRONT	1	E-85077-~~B~~C 193-A-90	—	—	X-17502 19-247	—	—	—
	28	" " " BACK	1	E-85077-~~B~~C 193-B-90	—	—	X-17502 19-247	—	—	—
	29	" " " Brace	—							
	30	" " " "	—							
	31	" Pump Strainer Support	—							
	32	" " " "	—							
	33	Equalizing Reservoir Support	2	F-69776-K 192-E-108	—	192-E-108	—	—	—	—
	34	DRIVER BRAKE CYLINDER APPLICATION	—	P.R.R.PT E-90720-A	—	—	—	—	—	—
	35	" " " BOLTS	6	" "	O.H. STEEL	—	—	—	—	—
	36	~~Air Pump Drip Pan~~ " STUDS	6	" "	" "	—	—	—	—	—
	37	" " " " " LOCKS.	6	P.R.R. PT.# F-90769-A.	PLATE. MAT ORD. IN. P.D	P.R.R. PT # F-90769-A	—	—	—	—
	38	" " " " Support	—							
	39	" " " " "	—							
	40	BRAKE PIPE & STEAM HEAT HOSE ARRGT	—	P.R.R.PT# D-81044-C	—	—	—	—	—	—
	41	" " & " " " CHAIN	2	E-81042-D. 192-A-239	COMPLETE	192-A-239	—	—	—	—
	42	" " & " " " BELT	2	192-B-239	—	192-B-239	—	—	—	—
	43	**GROUP 20—BRAKE, FOUNDATION**								
	44	Brake Arrangement (Foundation)	1-SET	PRR. PT C-71552-~~D~~E.	ORD. IN P.D	—	—	—	—	—
	45	" Bell Crank	—							
	46	" " " Fulcrum	—							
	47	BRAKE ~~Shaft~~ OPERATING PART. M.O	—	19-MO-103	ORD. IN P.D	—	—	—	—	—
	48	" " ~~Bearing~~ AIR SIGNAL HOSE	1	P.R.R.P.T # D-79430-A	ORD. IN P.D. FUR. BY. P.R.R	—	—	—	—	—
	49	" " " AIR BRAKE HOSE	1	P.R.R.PT D-79431-A	" "	—	—	—	—	—
	50	" " ~~Arms~~ AIR. PUMP STRAINER	1	P.R.R. PT D-72108-K	" "	—	—	—	—	—
	51	" " ~~Handle~~ ENG. BRAKE VALVE CUT OUT COCK	—	P.R.R.R. PT E-85346-D	" "	—	—	—	—	—
	52	DUPLEX MAIN RES. PRESS. REGULATOR	—	P.R.R.PT. E-43472-E		—	—	—	—	—
	53	AIR COMPRESSOR GOV. ASSEM	—	P.R.R.PT # E-85349-B		—	—	—	—	—
	54	AUTO. ~~Brake~~ AIR CYL. LUBRICATOR	—	P.R.R.PT E-70526-C	ORD. IN P.D.	—	—	—	—	—
	55	B5 " " " "	—	PRR PT. E-89375-A	" "	—	—	—	—	—
	56	SIGNAL STRAINER & CHECK VALVE ASSEM.	—	" # E-85347-B	" "	—	—	—	—	—
	57	METHOD ~~Equalizing~~ OF APPLYING CUT OUT COCKS AT FRONT END.	—	" # E-77625-A	" "	—	—	—	—	—
	58	DRAIN COCK FOR MAIN RESERVOIR	—	" # E-55398-F	" "	—	—	—	—	—
	59	LIST OF AIR BRAKE PARTS	—	" # ~~E-90256-A~~ E-77950-I	" "	—	—	—	—	—
	60	DRAIN FLANGE FOR RESERVOIRS	—	" # F-71097-F	" "	—	—	—	—	—
	61	DRIVER BRAKE CYLINDERS	—	" # E-53889-~~C~~D.	" "	—	—	—	—	—

(Group 20 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS---PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE, FOUNDAT'N (Cont.)								
	1	Brake Hangers (BETWEEN INT. & BACK)	2	202-C-27	FURNISHE BY BRAKE CO.					
	2	" "								
	3	" ~~Hangers~~ HANGERS (BETWEEN MAIN & INTER. RIGHT)	1R	202-A-27	FURNISHED BY BRAKE CO					
	4	" " " " (BETWEEN MAIN & INTER LEFT)	1L	202-B-27	" "					
	5	" "								
	6	" Rods								
	7	" "								
	8	BRAKE PIPE & STEAM HOSE SUPPORTS ARR'GT		PRR. PT # D-81044-C						
	9	" Adjusting Nuts								
	10	" " "								
	11	" Safety Straps								
	12	" " "								
	13	" Heads								
	14	" "								
	15	" Shoes								
	16	" "								
	17	" " Key								
	18	" " Spring								
	19	"								
	20	" Cylinder								
	21	" " Heads								
	22	" " "								
	23	" " Gland								
	24	~~" " " Nut~~ CAB LUGGAGE CARRIER	1-SET	D-89646-A 233-A-213		for future use PRR Bl # D-89646-B. as Supporting Brackets are longer Mr Johnson gave us permission to use forgings made on 1117				
	25	~~" " Support~~ " " " SIDE ANGLE	1	" "	PLATE. MAT ORD. IN P.D	23-A-370				
	26	" ~~Piston~~ " " " "	1	" "	" "	23-A-371				
	27	~~" " Rod~~ " " " END SUPPORTS	2	" "	" "	23-A 369				
	28	~~" " Follower~~ " " " SLATS	6	" "	2" x 1/8" PLATE					
	29	~~" " Rings~~								
	30	~~" Push Rod~~								
	31	Hook for Cab Clothes Closet.	6	PRR PT # F-91570-A	F-91570-A					
	32			note Schedule only for cars not Shipped.						
	33									
	34									
	35	GROUP 21—BUMPERS ARR'GT	1-SET	D-86538-B 214-A-5						
	36	Bumper—Front								
	37	" Knees								
	38	" "								
	39	" Brace								
	40	CAB SADDLE SPACER	~~4~~	~~232-C-423~~	FURNISH BOLT	~~232-C-423~~				
	41	" " ~~Back Pole Pocket~~ "	~~2~~	~~232-D-423~~	" "	~~232-D-423~~				
	42	" " " "	~~1~~	~~232-E-423~~	" "	~~232-E-423~~				
	43	" " " "	~~1~~	~~232-F-423~~	" "	~~232-F-423~~				
	44	"								
	45	BUMPER Plate	1	F-86707-C 212-A-128	PLATE. MAT. ORD. IN. P.D					
	46	" " ANGLE	1	" "	MAT. ORD. IN P.D					
	47	" " Support								
	48	" Scroll Iron								
	49	Bumper—Back								
	50	" Crosstie								
	51	" Brackets								
	52	CAB REAR VENT. HINGES	3	P.R.R PT F-85528-A	ORD. IN P.D					
	53	" " DOOR HASP PIN	2	232-A-598	O.H. STEEL	232-A. 598				
	54	" " " " " EYE BOLT	2	122-A-77	CAST. ORD IN P.D					X-6572.
	55	" " " HASP.	2	P.R.R.PT # F-90358-A.	ORD. IN P.D. FURNISH. CHAIN					
	56	CAB SECTIONS	1-SET	PRR. PT C-89756-~~A~~B	MAT. ORD IN P.D					
	57	GROUP 22—CAB								
	58	Cab	1-SET	D-71102-L 224-~~B~~A-10	MAT. ORD IN. P.D					
	59	" Material Bill	—	22-M0-28	" "					
	60	" FRONT.	1-SET	D-78589-H 233-A-214	" "					
	61	" BACK	1-SET	D-89755-A 223 A-36	" "					
	62	" " DOOR STOP	1R/1L	D-89755-A 232-A-591		232-A-597				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 23—CAB DETAILS								
	1	Cab Angle—Roof	1-SET.	224-~~A~~B-10 / 233-A-214	MAT. ORD IN. P.D					
	2	" Tee Iron	1-SET	" "	" "					
	3	" Roof Brace	—							
	4	" Gutter	1-SET	PRR. PT. C-89756-A	MAT. ORD IN P.D					
	5	" Corner Iron	—							
	6	" " Bracket	—							
	7	" Window Frame	2-SET	233-A-214	WOOD					
	8	" " Slide GUIDE	1-SET	PRR-PT C-89756-A.	MAT. ORD IN P.D					
	9	" " Stop								
	10	" ~~Shield~~ STORM WINDOW ON SLIDING SASH.	IR IL	P.R.R. PT. D-89837-A~~B~~C	ORD. IN P.D. COMPLETE					
	11	" " Sash Fixture								
	12	" " " "								
	13	" Storm Window Arrangement	IR/IL	PRR. PT # D-79991-G	ORD. IN. P.D COMPLETE	✓				
	14	" " " Frame	IR/IL	P.RR. PT # D-79990-E	" "	✓				
	15	" " " ~~Sash~~ DETAILS.	2-SET	P.R.R. PT # E-79989-D	" "	✓				
	16	" " " ~~Door~~ RACK	2	P.RR. PT E-79988-B	" "					
	17	"								
	18	" Door Frame	2-SET	233-A-214	WOOD					
	19	" " FIXTURE ARRANGMENT.	—	D-85011-C / 232-A-428						
	20	" " GUIDE ROD	2	F-47200F. 232-A-445		500-S-150				
	21	" " " " " BRACKET	2	" "		500-S-151				
	22	" " ~~Guide~~ CONNECTING ROD	2	F-51371-G 232-A-444		232-A-444				
	23	" " " SLIDE CLAMP PIN ~~Bracket~~	4	E-72278-A 232-A-443	STEEL					
	24	" " " Slide CLAMP WASHER.	6	232-A-443	STEEL					
	25	" " Clamp WING NUT	2	232-A-443						X-5749 23-371
	26	" " " Rod CLAMP PIN	2	" "	STEEL					
	27	" " Slide " CLAMP	4	" "						X-5748 23-372
	28	" " Fulcrum	2	F-51622-B 232-A-441			X-5811 23-375			
	29	" " ~~Handle~~ CLAMP WASHER	2	232-A-443	STEEL					
	30	CAB VENTILATOR CATCH	1	F-71106-A 232-A-424			X-13283 23-438			
	31	Cab Ventilator—Centre	1	D-77009-G 233-A-160	PLATE. MAT ORD. IN RD					
	32	" " ~~Rigging~~ DETAILS	1-SET.	D-65368-D. 233-A-161	FURN. PINS ETC.					
	33	" " ~~Shaft~~ HANDLE.	1	" "		23-A-297				
	34	" " ~~Arms~~ " BRACKET	1	" "		23-A-298				
	35	" " ~~Rod~~ " "	1	" "		23-A-299				
	36	" " ~~Handle~~ DECK PLATE ANGLE	1	F-89432-A 232-A-595	MAT. ORD IN PD					
	37	" " " ~~Washer~~ " " "	1	232-B-595	" "					
	38	" " ~~Latch~~ " " ANGLE APPLICATION.	—	232-C-595						
	39	" " " Fulcrum	—							
	40	" " Thumb Screw	—							
	41	" " Sides	—							
	42	" " Angle Sides	—							
	43	" " " Ends	—							
	44	" " Handles	—							
	45	" BRACKET ~~Bars~~ BOLTS	11	P.RR.PT# D-89754-~~A~~C	O.H. STEEL PLATE.					
	46	" Bracket	IR/IL	P.R.R. PT # D-89754-~~A~~C	MAT. ORD IN. P.D					
	47	" " Angle	1-SET	" "	" "					
	48	" ~~Brace~~ FIRING DECK SUPPORT	IR/IL	F-79855-C 232-A-422	MAT. ORD IN P.D	232-A-422				
	49	" ~~Leg~~ " " "	1	232-B-422	" "	232-B-422				
	50	" Saddle	—							
	51	" Firing Deck	1	PRR.PT D-89754-A.	PLATE. MAT. ORD. IN.P.D					
	52	" Apron	1	D-85018-F. 232-A-596	PLATE MAT. ORD. IN P.D					
	53	" " Hinge	2	232-A-426		232-A-426				
	54	" " ~~Link~~ HINGE	2	232-E-426		232-E-426				
	55	" FIRING DECK HINGES.	4	PRR PT# F-80878-B	ORD. IN P.D					
	56	" ~~Gangway Chain~~ ARM REST CUSHION	2	PRR.PT # F-89918-A.	RUBBER ORD. IN. P.D					
	57	" Arm Rest	2	P.RR.PT # D-89919-A.	WOOD. UPHOLSTERED					
	58	" Seat (Engineer)	1R.	P.R.R.PT D-89740-B.	ORD. IN P.D					
	59	" " Cushion & BACK REST.	1	PRR PT-D-90174-A	" "					
	60	" " Post	—							
	61	" " Hinge	—							
	62	" APRON HINGE BOLTS	2	D-85018-F 232-C-426	FURNISH SPLIT KEY					

(Group 23 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 23—CAB DETAILS (Cont.)								
	1	Cab Seat Rod	—							
	2	" " " Spring	—							
	3	" " (Fireman)	1 L.	P.RR.PT# D-89740-B	ORD. IN P.D	—	—	—	—	—
	4	" " Cushion & Back Rest.	1	P.RR.PT # D-90174-A	ORD. IN P.D	—	—	—	—	—
	5	" " Post	—							
	6	" " ~~Hinge~~ Torpedo. Holder	1	P.RR.PT # E-84657-B.	ORD. IN P.D	—	—	—	—	—
	7	" " Rod	—							
	8	" " Spring	—							
	9	" " (Brakeman)	—							
	10	" " Cushion	—							
	11	" " Post	—							
	12	" " " Fulcrum	—							
	13	" " Hinge	—							
	14	" " Spring	—							
	15	" Clothes Box	—							
	16	" " " Hinge	—							
	17	" " " Hasp	—							
	18	" Inspection Frame ~~Large~~ (Boiler)	1	PRR PT D-89850-A	ORD. IN P.D COMPLETE	—	—	—	—	—
	19	" " " ~~Small~~ (Boiler)	1	P.RR.PT D-74835-B	" "	—	—	—	—	—
	20	" " " —Location	—	P.RR.PT # F-75728-B		—	—	—	—	—
	21	" Train Order Hook	—							
	22	" Curtain—Back	1-SET.	P.RR.PT # D-72061-J	ORD. IN P.D FOR. BY P.RR. COMPLETE		—	—	—	—
	23	" " ~~Rod—Back~~ Hood Curtain Details	1-SET	" # C-85975-H	" " "		—	—	—	—
	24	" " ~~Hooks~~ Hood Curtail	1-SET	" # C-85978-H	" " "		—	—	—	—
	25	" " ~~Eye Bolts~~ Sidecurtain Forged Detail	1-SET	" C-88271-C	" " "		—	—	—	—
	26	" " Side —	1-SET	" C-88272-~~B~~C	" " "		—	—	—	—
	27	" " ~~Rod, Side~~ Side Curtain Details.	1-SET.	" D-85974-G	" " "		—	—	—	—
	28	" " ~~Anchor Rod~~ Eye Bolt (2) (2)	1-SET	" F-85984-B	" " "		—	—	—	—
	29	" " "S" Hooks	—							
	30	" " Eye Bolts	—							
	31	" ~~Awning~~ Back Curtain Fastner.	4	P.RR.PT # D-72061-J.	O.H. STEEL TURNED	—	—	—	—	—
	32	Cab Side Curtain Fastner. Detail #13	4	P.RR.PT # C-88271-C.	O.H STEEL TURNED	—	—	—	—	—
	33	Bushing in Cab Front (~~Large~~)	2	232-C-425	OH. STEEL	—	—	—	—	—
	34	" " " " (~~Small~~)	~~2~~	"	" ~~O.H. STEEL~~	—	—	—	—	—
	35		—			—	—	—	—	—
	36									
	37	Cab Saddle Spacer	4	E-82360-E 232-C-423	Furnish Bolt	23-B-295 ~~232-C-423~~	—	—	—	—
	38	" " "	2	232-D-423	" "	23-B-295 ~~232-D-423~~	—	—	—	—
	39	" " "	1	232-E-423	" "	23-C-295 ~~232-E-423~~	—	—	—	—
	40	" " "	1	232-F-423	" "	23-D-295 ~~232-F-423~~	—	—	—	—
	41									
	42	**GROUP 26—COCKS AND VALVES**								
	43	Angle Valve Air Pump. (Furnished with Brake Equipment. In side of Dome.	1	P.RR.PT E-80515-A.	ORD. IN P.D COMPLETE	—	—	—	—	—
	44	" " ~~Cap~~								
	45	Air Pump ~~Stem~~ Valve Handle (At. Dome)	1	F-55607-D 262-A-208	ORD. IN. P.D FUR. WITH BRAKE EQUIPMENT		—	—	—	—
	46	" " ~~Gland~~ " " (At Cab)	1	E-82782-D 262-A-207	—	—	X-948 26-362	—	—	—
	47	" " ~~Nut~~ Universal Joint (At Dome)	1	262-B-200	Furnish Bolt & Taper Rn	—	—	—	X-9287 26-354	Formula #2
	48	" " ~~Handle~~ " " (" ")	1	" "	—	—	—	—	X-9288 26-355	Formula #2
	49	" " " " (" ")	1	" "	½"-Pipe Length To Suit. E.S.	—	—	—	—	—
	50	Air Pump Line Valve	2	1¼" Globe. M.O # 26-MO-16	ORD. IN P.D	—	—	—	—	—
	51	Ash Pan ~~Valve~~ Sprinkler Hose Valves	3	½"-Globe 26-MO-8	ORD. IN. P.D	—	—	—	—	—
	52	" " " Cap	—							
	53	" " " Stem	—							
	54	" " " Gland	—							
	55	" " " Nut	—							
	56	" " " Handle	—							
	57									
	58	Bell Ringer Valve	—	see page 12 ITEM-26			—	—	—	—
	59									
	60									
	61									

(Group 26 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont,)								
	1	Booster Drain Cock	—							
	2	" Throttle Valve	—							
	3	" Valve	—							
P	4	BACKHEAD BOILER CHECK DRAIN VALVE. USED WITH COAL SPRINKLER.	1	½" ANGLE. MAT. ORDER # 26-MO-1	ORD. IN P.D. COMPLETE	—	—	—	—	—
P	5	BLOW OFF COCK DRAIN PIPE FITTING	1	F-74388-A 262-A-287	—	—	—	—	X-17046 26-434	FORMULA #2
P	6	" " " " " JOINT RING.	1	D-82394-D 792-Y-90	—	—	X-4430 79-935	—	—	—
P	7	" " " " " NUT	1	PRR PT# E-60146-B.	FORGING ORD. IN P.D. FROM PENNA R.R	—	—	—	—	—
P	8	" " " " " SWIVEL	1	P.R.R. PT# E-60145-B.	O.H. STEEL.	—	—	—	—	—
	9									
P	10	Blower Valve	1	P.R.R. PT# D-85816-D	ORD. IN. P.D COMPLETE.	—	—	—	—	—
P	11	" " [redacted] (R.S.)	1	1¼" GLOBE 26-MO-13	ORD. IN. P. D. COMPLETE	—	—	—	—	—
	12	" " Stem	—							
	13	" " Gland	—							
	14	" " Nut	—							
P	15	" " Handle	2	E-72841-E 262-A-196	CAST. ORD. IN P.D.	—	—	—	—	X-12662
P	16	" " " SET SCREW	4	262-B-196	ORD. IN P.D. TOOL STEEL	—	—	—	—	—
P	17	Blow Off Cock (OKADEE)	1	PRR. PT # D-77413-G	ORD. IN P.D	—	—	—	—	—
	18	" " " Cap	—							
	19	" " " Plug	—							
	20	" " " Nut	—							
	21	" " " Washer	—							
	22	" " " Handle	—							
P	23	" " " Joint Ring	1	D-82394-D 792-U-88	—	—	—	—	X-17333 79-864	FORMULA #1
	24	" " " Extension	—							
	25	" " " "								
P	26	BELL RINGER VALVE	2	¼"-GLOBE. 26-MO-10	MAT. ORD. IN P.D COMPLETE	—	—	—	—	—
	27	Blow Off Valve	—							
	28	" " " Cap	—							
	29	" " " Stem	—							
	30	" " " Gland	—							
	31	" " " Nut	—							
	32	" " " Handle	—							
	33									
	34	Cab Heater Valve	—							
	35									
	36									
	37									
	38	Coal Sprinkler Valve	—							
	39	" " " Cap	—							
	40	" " " Stem	—							
	41	" " " Gland	—							
	42	" " " Nut	—							
	43	" " " Handle	—							
P	44	DRAIN PIPE PLUG. (IN CYLINDER EXHAUST PASSAGE)	3	F-85481-B 262-A-201	—	—	—	—	—	—
P	45	Cylinder Cock ~~Body~~ COMPLETE.	4	PRR. PT # D-78879-D	ORD. IN P.D	—	—	—	—	—
	46	" " Shank	—							
	47	" " Valve	—							
	48	" " Nipple	—							
	49	Port Cock	—							
	50	" " Shank	—							
	51	" " Valve	—							
V	52	CYLINDER COCK LINE VALVE.	1	½"-GLOBE MO. # 26-MO-5	ORD. IN. P.D COMPLETE	—	—	—	—	—
P	53	DRAIN ~~Drip~~ Valve = STOKER JET. DRAIN COCKS	5	PRR. PT. # E-85348-B.	ORD. IN. P.D. COMPLETE	—	—	—	—	—
P	54	" " ~~Cap~~ FEED WATER DRAIN.	1	"	" " " "	—	—	—	—	—
P	55	" " ~~Stem~~ " " VENT.	1	"	" " " "	—	—	—	—	—
P	56	" " ~~Gland~~ STOKER EXHAUST. BLOWER DRAIN.	1	"	" " " "	—	—	—	—	—
P	57	" " ~~Nut~~ AIR PUMP DISCHARGE	1	"	" " " "					
	58	" " ~~Handle~~								
	59									
	60									
P	61	METHOD OF APPLYING BLOWER DRAIN #		P.R.R. PT # ~~F-46933-B~~		—	—	—	—	—

(Group 26 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
	1	Dynamo Valve (STARTING VALVE)	1	3/4"-GLOBE. 26-MO-12	ORD. IN P.D COMPLETE					
	2	" " Cap	—							
	3	" " Stem	—							
	4	" " Gland	—							
	5	" " Nut	—							
	6	Feed Water ~~Heater~~ Strainer Drain Valve	4	3/8" GLOBE-26MO15.	ORD. IN. P.D					
	7	Feed Water Heater Line Check	1	2½" CRANE SWING CHECK	ORD. IN P.D					
	8	Feed Water Heater Valve (IN TURRET BRIDGE HEADER)	1	1½" ANGLE M.O # 26-MO-2	ORD. IN P.D COMPLETE					
	9	" " " SUCTION THAW-OUT.	1	¾"-ANGLE. 26-MO-11	" "					
	10	" " " DRAIN VALVE	1	⅜" GLOBE 26MO 15 E-45849-C	ORD. IN P.D					
	11	LOCK FOR SURFACE COCK	1	262-B-195	1/8 STEEL PLATE					
	12	" " " " ASSEMBLY.	—	262-C-195	FURNISH STUD					
	13	DYNAMO DRAIN VALVE.	1	F-82775-B 262-A-202			X-17119 26-356			
	14	" " " CAP	1	" "					X-17797 26-357	FORMULA #2
	15	" " "	1	F-63524-F " "	STEEL PIN CAST IN				X-15201 26-358	FORMULA #2
	16	" " " SPRING.	1	F-82776-C	CLASS # H-427 ORD. IN. PD					
	17									
	18	~~Grate Shaker~~ BLOWER Valve DRAIN VALVE BODY	1	F-82775-B 262-A-202			X-17119 26-356			
	19	" " " " ~~Cap~~ " " CAP	1	" "					X-17797 26-357	FORMULA #2
	20	" " " " ~~Stem~~ " VALVE	1	F-63524-F " "	STEEL PIN CAST IN.				X-15201 26-358	" #2
	21	" " " " ~~Gland~~ " " SPRING.	1	F-82776-C	CLASS-H-427 ORD IN. P.D					
	22	BLOWER DRAIN ~~Nut~~ VALVE PIPE CLAMP	2	P.R.R. PT # F-90722-A		PRR PT # F-90722-A				
	23	" " " Handle	—							
	24									
	25	Inj. Starting Valve (IN TURRET BRIDGE PIPE HEADER)	1	2½"-VALVE MO.# 26-MO-3	ORD. IN P.D COMPLETE					
	26	" " " Cap	—							
	27	STOKER VALVE ~~Stem~~ (IN TURRET BRIDGE PIPE HEADER)	1	1½" ANGLE MO. 26-MO-2	ORD. IN P.D COMPLETE					
	28	" " " ~~Gland~~ LINE (ABOVE BY-PASS)	1	1½" GLOBE MO # 26-MO-4	" "					
	29	" " " ~~Nut~~ LINE	1	1" GLOBE MO. # 26-MO-6	" "					
	30	" " " ~~Handle~~ LINE	1	¾"-GLOBE 26-MO-7	" "					
	31	" " " ~~Extension~~ BY PASS	1	½"-GLOBE 26-MO-8	" "					
	32	" " " Flange JET.	5	½" GLOBE.	FURNISHED WITH STOKER FROM R.R. CO.					
	33									
	34	Lubricator Valve (IN BRIDGE PIPE HEADER) & CYLINDER COCK LINE	1	1¼"-GLOBE. 26-M.O-9	COMPLETE ORD. IN P.D					
	35	" " Cap	—							
	36	" " Stem	—							
	37	" " Gland	—							
	38	" " Nut	—							
	39	" " Handle	—							
	40	" " Extension	—							
	41	SANDER LINE VALVE.	1	¾"GLOBE. 26-MO-7	ORD. IN P.D complete					
	42	Oil Stock	—							
	43	" " Cap	—							
	44	" " Plug	—							
	45	" " Nut	—							
	46	" " Washer	—							
	47	" " Handle	—							
	48									
	49	Power Reverse Angle Valve	—							
	50	" " " " Cap	—							
	51	" " " " Stem	—							
	52	" " " " Gland	—							
	53	" " " " Nut	—							
	54	" " " " Handle	—							
	55									
	56	Power Reverse Cut Out Cock	—							
	57									
	58	SURFACE COCK (USED IN CONNECTION WITH WATER SCOOP HEATER)	1	¾"-ANGLE 26-MO-18	ORD. IN P.D.					
	59									
	60									
	61									

(Group 26 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
	1	Power Reverse Globe Valve	—							
	2	" " " " Cap	—							
	3	" " " " Stem	—							
	4	" " " " Gland	—							
	5	" " " " Nut	—							
	6	" " " " Handle	—							
	7	STEAM HEAT VALVE TURRET	—	2" GLOBE MO# 26M017	ORD. IN P.D	—	—	—	—	—
	8	Power Reverse 3-Way Cock	—							
	9	" " " " Bracket	—							
	10	STEAM GAUGE COCK CONNECTION TO BOILER.	—	P.R.R.PT. F-38992-C						
	11	Steam Gauge Cock	1	E-85049-B 262-A-289					X-92 STICK.	FORMULA #1
	12	" " " ~~Cap~~ WASHER	1	E-85049-B 262-C-289					STICK	" #1
	13	" " " Plug	1	E-85049-B 262-C-289	FURNISH BRASS NUT. & COTTER.				A-54 26-360	" #1
	14	" " " Nut	1	F-85045-C 632-A-835					COLD DRAWN HEX-BRASS	
	15	" " " ~~Washer~~ SWIVEL COLLAR	1	F-85043-B 632-A-548					STICK	
	16	" " " Handle	—							
	17	STEAM GAUGE COCK EXTENSION	1	F-84221-B 262-A-205	O.H. STEEL					
	18	Test Gauge Cock (FOR TESTING SAFETY VALVES)	1	D-81667-G. 273-A-57	FURNISH SASH CHAIN.				X-12297 27-432	FORMULA #1
	19	" " " Cap BONNET.	1	" "					X-12300 27-434	" #1
	20	" " " ~~Bush~~ CAP	1	" "					X-12299 27-435	" #1
	21	" " " Nut	1	" "					X-12314 27-433	" #1
	22	" " " Washer	1	" "					STICK	" #1
	23	" " " ~~Handle~~ STEM	1	" "					X-12298 STICK	" #1
	24	" " " " BLOCK	1	" "			X-14219 27-431.			
	25	Water Column Drain Valve	1	1" GLOBE MO. 26M014.	ORD. IN P.D. COMPLETE					
	26	" Gauge " "	1	3/8" GLOBE MO. 26M015	ORD. IN P.D. COMPLETE					
	27	TEST GAUGE COCK GLAND	1	273-A-57					X-18091 STICK	FORMULA #1
	28									
	29									
	30	Universal Joint STEAM HEAT.	1	E-90159-A. 262-A-285	FURNISH 1/2" PIPE					
	31	" " " " BODY.	1	" "	FURNISH PIN				X-9288 26-355	FORMULA #2
	32	" " " " LINK	1	" "					X-9287 26-354	" #2
	33	" " " " JAW	1	F-90153-A 262-A-286					X-19114 26-433	" #2
	34	AIR GAUGE PIPE COCK	~~1~~	E-85049-B 262-B-289					A-250 STICK	FORMULA #1
	35	" " " " WASHER	~~1~~	E-85049-B 262-C-289	see Letter Hankins-12-18-29.				STICK	" #1
	36	" " " " PLUG.	~~1~~	E-85049-B 262-C-289	FURNISH. BRASS NUT & COTTER				A-54 26-360	" #1
	37	" " " " NUT	~~1~~	F-85045-C 632-A-835					COLD. DRAWN HEX. BRASS	
	38	" " " " SWIVEL COLLAR	~~1~~	F-85043-B 632-A-548					STICK	
	39									
	40	GAUGE COCK DRIPPER PIPE CLAMP	1	D-89925-A 262-B-282		63-A-265				
	41	" " " " " BRACKET	1	D-89925-A. 262-D-199	PLATE. MAT ORD. IN P.D					
	42									
	43	GAUGE COCK STAND (ON BRIDGE PIPE)	1	E-69404-B 272-A-166					X-14835 27-427	FORMULA #1
	44	GAUGE COCK PIPE CASING FLANGE	1	F-60373-B 272-A-167			X-14813 27-428			
	45	GAUGE COCK PIPE END FLANGE	1	F-60374-C 272-A-168			X-14812 27-429			
	46	GAUGE COCK STAND APPLICATION TO BRIDGE PIPE	1-SET	PRR. DT # E-60476-B						
	47	**GROUP 27—COCKS AND VALVES**								
	48	Gauge Cock (FOR WATER COLUMN)	3	MAT. ORDER # 27-MO-1	ORD. IN P.D COMPLETE.					
	49	" " ~~Valve~~ (FOR BRIDGE PIPE FLANGE)	3	MAT. ORDER # 27-MO-2	" "					
	50	" " Cap	—							
	51	" " Stem	—							
	52	" " Gland	—							
	53	" " Nut	—							
	54	" " Handle	—							
	55	" " Extension	—							
	56	" " Dripper	1	F-81378-C 272-C-186			X-3524 27-430			
	57	" " " STUD	1	" "	O.H. STEEL					
	58	Water Column	1	E-85542-D. 273-A-77					X-17523 27-502	FORMULA #1
	59	" " Support	1	F-86053-A. 272-A-249		272-A-249				
	60	" " Bottom Extension FITTING	1	C-85542-D. 272-A-171					X-17526 27-441	FORMULA #1
	61	" " " " ~~Sleeve~~ ELBOW	1	C-85542-D 272-A-170					X-17527 27-442	FORMULA #1
	62	" " SUPPORT FILLER BLOCKS	2	272-B-249		272-B-249				

(Group 27 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 27—COCKS & VALVES (Cont.)								
	1	Water Column Top Extension ELBOW	1	C-85542-D. 272-A-172					X-17528 27-440	FORMULA #1
	2	" " Bot. " ~~Sleeve~~ BEVEL WASHERS	1	272-B-175	O.H. STEEL					
	3	" " Extension Sleeve Nuts	1	C-85542-B 272-A-175					X-17531 27-437	FORMULA #1
	4	" " ~~Plug~~ LOWER FITTING SLEEVE.	1	C-85542-D. 272-A-173.					X-17524 27-439	FORMULA #1.
	5	" " BOTTOM JOINT RING.	1	D 82394-D. 792-B-87			X-180 79-863			
	6	WATER COLUMN ARR'GT	1-SET	P.RR.-PT D-86054-D						
	7	LOW WATER MARKER	1	272-A-177	PLATE. MAT ORD IN P.D	272-A-177				
	8	Water Gauge Guard	—							
	9	" " " Slip Joint	—							
	10	" " Upper Fitting	—							
	11	" " " " Cap	—							
	12	" " " " Valve	—							
	13	" " " " Stem	—							
	14	" " " " Gland	—							
	15	" " " " Nut	—							
	16	" " " " Washer	—							
	17	" " " " Handle	—							
	18	" " Lower Fitting	—							
	19	" " " " ~~Cap~~ EXTENSION	1	272-A-174	ORD. IN P.D					
	20	" " " " Valve	—							
	21	" " " " Stem	—							
	22	" " " " Gland	—							
	23	" " " " Nut	—							
	24	" " " " Washer	—							
	25	" " " " Handle	—							
	26	" " Glass	—							
	27	" " Guard	—							
	28	" " " Glass	—							
	29									
	30	" " Cock	—							
	31	" " " Valve	—							
	32	" " " Cap	—							
	33	" " " Stem	—							
	34	" " " Gland	—							
	35	" " " Nut	—							
	36	" " " Handle	—							
	37	" " " Extension	—							
	38	BLOWER ROD BRACKET	3	D-89925-A. 262-A-198		262-A-198				
	39	" " " ARM	2	262-H-198		262-H-198				
	40	" ROD	1	262-B-198		262-B-198				
	41	" " SHAFT	1	262-D-198		262-D-198				
	42	" " " COLLARS	2	262-F-198	FURNISH SET SCREW	262-F-198				
	43	" " PINS	2	262-E-198	O.H. STEEL					
	44	Valve Extension Handle Guide	1	D-89925-A 262-A-284	PLATE					
	45	" " " " ANGLE	1	" "	MAT. ORD IN P.D.					
	46	GAUGE COCK EXT. ROD GUIDE SUPPORT	1	D-89925-A 262-A-282	PLATE. MAT. ORD. IN P.D					
	47	" " " " " FILLERS	4	D-89925-A 262-D-282		262-D-282				
	48	" " " " GUIDE	1	D-89925-A ~~262-C-282~~ 262-E-282	PLATE. MAT. ORD. IN P.D FOR FUTURE	~~262-C-282~~ 262-E-282.				
	49									
	50	**GROUP 28—COCK RIGGING**								
	51	Blow-off Cock Rigging	1-SET	D-78766-A 284-A-4						
	52	" " " Arm	—							
	53	" " " Crank	—							
	54	" " " Handle	1	D-78766-A 282-B-143		282-B-143				
	55	" " " ~~Lever~~ SUPPORT	1	D-78766-A. 282-A-143		282-A-143				
	56	" " " ~~Rod~~ DRAIN PIPE	—	D-89945-A 283-A-48						
	57	" " " ~~Shaft~~ " " CLAMP	1	" "		28-A-228				
	58	" " " Hanger	—							
	59	WATER COLUMN ~~Yoke~~ SPANNER NUT	2	632-E-537	BAR. STEEL					
	60	" " " ~~Stop~~ SWIVEL COLLAR	2	F-84229-A. 632-E-536					X-17575 63-807	FORMULA #1
	61	" " " ~~End~~ BALL CENTER RING	2	F-83940-A 632-E-538					X-17566 63-808	" "

(Group 28 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 28—COCK RIGGING (Cont.)								
	1									
P	2	APPLICATION OF AUTO. CYL COCKS	—	PRR PT D-80924-D	FURNISH PIPE THIMBLES					
	3	Cylinder Cock Rigging	—							
	4	" " Arm	—							
	5	" " "	—							
	6	" " Lever	—							
	7	" " " Fulcrum	—							
	8	" " Rod	—							
	9	" " " Supports	—							
	10	" " Shaft	—							
	11	" " " Hangers	—							
	12	" " " Bearing	—							
	13	" " Slide Bar	—							
	14	" " " " Connection	—							
	15	" " Treadle	—							
	16	" " Operating Cylinder	—							
	17	" " " " Support	—							
P	18	CYLINDER Cock PIPE CLAMP.	2	E-81114-F. 282-A-144	——	282-A-144	——	——	——	——
P	19	" " ROD GUIDE	1	282-B-144	1/4" PLATE	282-B-144	——	——	——	——
	20									
P	21	CYLINDER Cock PIPE ELBOW	4	P.RR.PT # D-80924-D	1/4" Ex. HEAVY. W.I. PIPE	——	——	——	——	——
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33	Main Reservoir Drain Cock Rigging	—							
	34	" " " " " Handle	—							
	35	" " " " " Support	—							
	36									
	37									
	38									
	39	Oil Cock Rigging	—							
	40	" " Arms	—							
	41	" " Lever	—							
	42	" " Rod	—							
	43	" " Shaft	—							
	44	" " " Hanger	—							
P	45	CRANK PIN BOLT WASHERS	6	292-C-112	STEEL	292-C-112	——	——	——	——
P	46	" " DOWELS.	12	292-B-112	"	292-B-112	——	——	——	——
P	47	" " BOLTS INT & REAR	4	292-A-157	——	——	——	——	——	——
P	48	" " " FRONT	2	292-A-156	——	——	——	——	——	——
	49	**GROUP 29—CRANK PINS**								
P	50	Crank Pin—Main	2	E-79901-D. 292-A-109	MAT. ORD. IN P.D HEAT TREATED	292-A-109	——	——	——	——
P	51	" " —F.	2	D-79386-H 292-A-156	" " "	292-A-156	——	——	——	——
P	52	" " —Int.	2	E-80741-C 292-A-157	" "	292-A-157	——	——	——	——
P	53	" " —Back	2	292-A-157	" "	292-A-157	——	——	——	——
P	54	" " KEYS - MAIN.	2	292-A-109	TO SUIT SHOP	——	——	——	——	——
	55	" " Collars—Main	—							
P	56	" " " —F.	2	292-A-158	AXLE STEEL	292-A-158	——	——	——	——
P	57	" " " —Int.	2	292-A-158	AXLE STEEL	292-A-158	——	——	——	——
P	58	" " " —B.	2	292-A-158	" "	292-A-158	——	——	——	——
	59	" " Nuts	—							
	60	Pressed Into Wheels (Tons)								
P	61	Crank Pin Marking	1-SET	P.RR PT D-75490-D	——	——	——	——	——	——

(Group 29 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 29—CRANK PINS (Cont.)								
	1									
P	2	CROSSHEAD KEY MARKING	1-SET	P.R.R PT# D-75490-HD						
	3	**GROUP 30—CROSSHEAD**								
P	4	Crosshead—Body (PAIRED)	2	D-89716-A 303-A-63	TINNED ORD. IN P.D			X-16679 30-272-A		
P	5	" Wrist Pin	2	D-79358-H 303-B-47	HEAT TREATED 303-B-47					
P	6	" " " Washer	2	E-85821-A 302-A-179				X-18444 30-307		
P	7	" " " Bearing	2	303-B-47	STEEL. CASEHARDENED					
P	8	" " " Grease Plugs	2	303-B-47	O.H. STEEL					
P	9	" " " ~~Nuts~~ " "	2	" "	" "					
P	10	" Key	2	E-78299-C 303-A-63	MAT. ORD. IN P.D STEEL-HEAT TREATED: $1\frac{39}{64}$" X $3\frac{3}{4}$" X $15\frac{3}{4}$" FIN SIZES					
P	11	" ~~Plug~~ WRIST PIN GREASE PLUG	2	F-71467-J 303-B-47			X-16621 30-275			
P	12	" ~~Arm~~ " " WASHER	2	" "	STEEL CAST. ORD IN P.D					
P	13	" ~~" Bushing~~ " " SIDE WASHERS	4	D-89716-A 303-A-63					X-17042 30-273 PHOS. BRONZE.	
	14	" Shoe—Top	—							
	15	" " —Bottom	—							
P	16	" Wrist Pin Marking	1-SET	PRR PT# D-75490-C						
P	17	" " " RETAINER STUDS-Y	6	D-79358-H 303-B-47	O.H. STEEL					
P	18	" " " " " -W	6	303-B-47	" "					
P	19	**GROUP 31—CYLINDER** PAIRED	2	P.R.R. PT# ~~D~~ CASTING C-89446-~~B~~ ORD. IN P.D ~~GHEJL~~		O.H. SFOY				
	20									
	21									
P	22	Cylinder Bushing	2	PRR PT# ~~D~~ C-89446-~~B~~ ~~#GHEJL~~			X-12818 31-254			
	23									
	24									
	25									
	26									
	27									
	28	**GROUP 32—CYLINDER DETAILS**								
P	29	Cylinder Head—Front	2	D-62039-F 324-A-12				X-17857 32-484		
P	30	" " —Back	2	D-87992-B 324-A-15				X-16615 32-575		
P	31	" " Cover—Front	2-SET	D-62040-E 323-A-96	PLATE MAT. ORD IN P.D FURNISH STUD					
P	32	" " " —Back	2-SET	D-71461-D 323-A-97	" " "					
P	33	Casing Clamp	2	F-79126-A 322-A-201	PLATE COMPLETE ORD IN P.D					
P	34	" ~~Nut~~ CLAMP	2	322-B-201	FORGING ORD IN P.D					
P	35	Steam Chest Head—Front	2	E-78881-B 322-A-199			X-17610 32-488			
P	36	" " " —Back L.HAND	1	D-86381-A 324-A-16	FURNISH PIPE PLUGS, BOLTS, & WASHERS.			X-18558 32-576		
	37	" " " Cover—Front	—							
	38	" " " " —Back	—							
	39	" " " " Clips	—							
P	40	" " Bushing	4	E-84730-B 322-A-202			X-17387 32-490			
P	41	" " VALVE STEM GUIDE BUSHINGS	1	D-86381-A 324-A-16					X-12519 32-486 FORMULA #2	
P	42	" " " " " "	1	" "					X-9298 32-487 " "	
	43									
P	44	Valve Rod Crosshead Guide	4	E-81647-C 322-B-206	CAST. ORD IN P.D				X-12772 32-489 PHOS. BRONZE	
	45	" " " " Wearing Plate								
P	46	STEAM CHEST HEAD. BACK. R.HAND	1	C-90293-A 327-A-1				X-19130 32-582		
P	47	" " VALVE STEM GUIDE BUSHINGS	1	C-90293-A " "					X-12519 32-486 Formula #2	
P	48	~~Steam Chest~~ " " " " "	1	C-90293-A " "					X-9298 32-487 " "	
	49	" " Caps	—							
	50	" " Balance Plates	—							
	51	" " Covers	—							
	52	" " Casings	—							
P	53	CYLINDER HEAD CASING WASHERS	12	323A97		1" DIA X $1\frac{1}{2}$" LONG				
P	54	" " " CLAMPS	2	" "	PLATE - $\frac{1}{4}$" X 1" X $5\frac{1}{4}$					
P	55	" " " PLATE (F)	2	" "	PLATE MAT. ORD. IN P.D					
P	56	" " " " (B)	2	323A96	" " " " "					
P	57	" " " WASHER	2	323-A-96	PLATE.	$4\frac{1}{4}$" DIA X $\frac{3}{8}$" THICK				
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 33—CYL. COMPOUND AT'CHM'TS								
	1	Intercepting Valve Arrangement								
	2	" " Chamber								
	3	" " " Cap								
	4	" " " "								
	5	" " " " Pack'g Ring								
	6	" " Snap Rings								
	7	" " " "								
	8	" " Bushing								
	9	" " Stem								
	10	" " " Nut								
	11	" " Spring								
	12	" " Lock Stud								
	13	" " Disc								
	14	" " Chamber Joint Ring								
	15	" " Pipe Flange								
	16	" " Bracket								
	17	" " Dash Pot								
	18	" " " " Piston								
	19	" " " " Head								
	20									
	21									
	22									
	23									
	24									
	25	Receiver Pipe Arrangements								
	26	" "								
	27	" " Sleeve								
	28	" " Flange								
	29	" " Ball Joint								
	30	" " " " Packing Flange								
	31	" " " " " Rings								
	32	" " " " " "								
	33	" " Straps								
	34	" " Supports								
	35	" "Y" Pipe								
	36	" " " Casing								
	37	" " " "								
	38	" " " "								
	39	" " " "								
	40	" " " "								
	41	" " " Joint Ring								
	42	SNIFTING VALVE ARRANGEMENT-	2-SET	P.R.R. PT# D-90313-A.						
	43	" " SEAT	2	D-90360-A 343-A-18			x-19140. 34-90-A			
	44	~~" Reducing Valve~~ "	2	E-90359-A 343-A-19	MAT. ORD IN P.D AXLE STEEL.	343-A-19				
	45	" " STEM NUT	2	343"-B-19	STEEL					
	46	" " STEM	2	343"-C-19	STEEL					
	47	" " NUT	2	343"-D-19	STEEL					
	48	" " LOCK	2	343"-E-19	O.H. STEEL					
	49	" ~~Separate Exhaust Valve~~ NUT	2	343"-F-19	STEEL					
	50	" " COVER	2	F-39971-F 343-H-19	DROP FORGED ORD IN P.D					
	51	" " SCREEN	2	F-89656-B 343-J-19	MAT. ORD. IN P.D. BRASS. PLATE.					
	52	" " COPPER RING.	2	P.R.R PT#-D-90313-A.	MAKE CIRCULAR RING. & BRAZE TOGETHER FROM 1/8" DIA. COPPER WIRE.					
	53									
	54	Starting Valve								
	55	SNIFTING VALVE ARRG'T.	~~1 SET~~	E-89818-A. 343-C-16						
	56	" " SEAT	~~2~~	E-89817-A 342-A-10			x-10516 34-90			
	57	" " COVER	~~2~~	F-39971-E. 343-C-16	DROPED FORGED. ORD. IN P.D.					
	58	" "	~~2~~	F-89816-A 343-C-16	MAT. ORD. IN P.D AXLE STEEL					
	59	" " STOP	~~2~~	F-39969-F 343-C-16				x-10475 34-93		
	60	" " COVER NUT	~~2~~	F-39972-D 343-C-16					x-10474 34-91	FORMULA #2.
	61	" " SCREEN	~~2~~	F-89656-A 343-C-16	MAT. ORD IN P.D BRASS PLATE					

CANCELED.

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 34—CYL. BY-PASS & RELIEF VALVE								
	1	By-Pass Valve								
	2	" " Casing								
	3	" " Cap								
	4	" " Nut								
	5	" " Stem								
	6	" " Spring								
	7	" " Piston								
	8	" " Ring								
	9									
n	10	Cyl. Head Relief Valve (WATER RELIEF)	4	PRR. PT# D-75283-H	ORD. IN P. D. COMPLETE	—	—	—	—	—
	11	" " " " Cap	—							
	12	" " " " Nut	—							
	13	" " " " Stem	—							
	14	" " " " Casing	—							
	15	" " " " Spring	—							
	16									
	17	Cyl. Relief Valve	—							
	18	" " " Cap	—							
	19	" " " Nut	—							
	20	" " " Stem	—							
	21	" " " Spring								
	22									
	23	St. Chest Relief Valve								
	24	" " " " Cap								
	25	" " " " Nut								
	26	" " " " Stem								
	27	" " " " Spring								
	28	" " Vacuum Valve								
	29	" " " " Cap								
	30	" " " " Nut								
	31	" " " " Stem								
	32	" " " " Spring								
	33									
	34									
	35									
	36									
	37	**GROUP 35—DIE WORK**								
D	38	Flanging Dies	1-SET	352A259		—	—	—	—	—
	39									
	40									
	41									
	42									
	43									
	44									
	45	**GROUP 36—DOME**								
D	46	Dome FLANGE DRILLING.	1	E-56574 I		—	—	—	—	—
D	47	" ~~Flange~~ MARKING.	1-SET	F-82797A		—	—	—	—	—
D	48	" ~~Ring~~ GASKET	1	F-56779J		—	—	—	—	—
D	49	" Cap	1	F-68987F		—	—	—	—	—
D	50	" Casing	1	E-71043-L 362-A-122	PLATE MAT ORD. IN P.D	—	—	—	—	—
	51	" Shut Off Valve								
	52	" " " " Cap								
	53	" " " " Casing								
	54	" " " " Stuffing Box								
	55	" " " " Packing								
	56	" " " " Nut								
	57	" " " " Gland								
	58	" " " " Stem								
	59	" " " " Universal Joint								
	60	" " " " Handle								
	61									

(Group 36 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 36—DOME (Cont.)								
	1									
	2									
	3									
	4	Auxiliary Dome	—							
	5	" " Cap	—							
	6	" " Casing	—							
	7									
	8	COUPLER HEIGHT LIMITS	—	PRR PT F-78624-A	—	—	—	—	—	—
	9	**GROUP 37—DRAWGEAR**								
	10	Coupler—Front	1	PRR. PT E-64330-B	ORD. IN P.D	—	—	—	—	—
	11	" Uncoupling Shaft	1	E-81699-C 372-A-326	—	372-A-326	—	—	—	—
	12	" " " Bracket	1	F-38081-D 372-A-230	—	—	X-11372 86-70	—	—	—
	13	" " " "	2	F-38082-D 372-A-155	—	—	X-11371 37-339	—	—	—
	14	" " " ~~Handle~~	1	372-C-155	—	—	X-11371 37-339	—	—	—
	15	" Drawhead	—							
	16	Buffer—Front	1	PRR. PT# E-79526-A	ORD. IN P.D	—	—	—	—	—
	17	Drawbar—Between Eng. & Tender	1	D-73709-K 372-A-221	MAT. ORD IN P.D.	372-A-221	—	—	—	—
	18	" Pin	1	D-73708-K 372-A-223	MAT. ORD IN P.D	—	—	—	—	—
	19	Safety Bar	1	E-84224-H 372-A-220	MAT. ORD IN P.D	372-A-220	—	—	—	—
	20	" " Pin	—							
	21	" Chain	—							
	22	" " Clevis	—							
	23	" " Pin	—							
	24	Radial Buffer	—							
	25									
	26	Chafing Plate (BUFFER CASTING) (BACK	1	F-72137-B 372-A-224	—	—	—	X-4614 37-386	—	—
	27	" " " " SPRINGS	2	P. RR. PT. F-88167-A.	ORD. IN P.D	—	—	—	—	—
	28	DRAWBAR PIN APPLICATION.	—	PRR. PT F-74344-A	—	—	—	—	—	—
	29	" " GIB.	1	372-C-223	O.H. STEEL.	372-C-223	—	—	—	—
	30	" " BOLT	1	372-D-223	—	—	—	—	—	—
	31	UNCOUPLING CHAIN CLEVIS	2	F-34223-B 372-A-225	CAST. ORD IN. P.D	—	—	—	—	X-11110
	32	" " " PINS	2	F-82241-A 372-C-225	W. I	372-C-225	—	—	—	—
	33	" SHAFT CHAIN.	1-SET	E-88141-B 372-B-225	COMPLETE	372-B-225	—	—	—	—
	34									
	35	**GROUP 39—ECCENTRIC**								
	36	Eccentric Crank PAIRED	2	E-79901-D 392-B-108	AXLE. STEEL ANNEALED MAT. ORD. IN P.D	39-B-85	—	—	—	—
	37	" " Bolt	2	" "	—	—	—	—	—	—
	38	" " Key	2	" "	TO SUIT ES	—	—	—	—	—
	39	" " Location	—							
	40	" " Pin	—							
	41	" " " Washer	—							
	42	" Rod	1R 1L	D-79555-K. 392-A-110	AXLE STEEL MAT. ORD. IN P.D	39-A-87	—	—	—	—
	43	" " ~~Stub~~ PINS	2	" "	FURNISH DOWELS KEEPER STUDS, PLUGS	—	—	—	—	—
	44	" " Brass	2	F-84473-D " "	CAST. ORD IN P.D	—	—	—	X-9730 39-482.	PHOS. BRONZE.
	45	" " Pin								
	46	" ~~Large Half~~ CRANK PIN	2	E-84474-C 392-D-109	AXLE STEEL ANNEALED MAT. ORD. IN P.D	39-B-86	—	—	—	—
	47	" ~~Small~~ " " " WASHER	2	" "	PLATE-4" DIA X $\frac{3}{8}$" THICK. FIN. SIZES	—	—	—	—	—
	48	" Strap Large Half	—							
	49	" " Small "	—							
	50	" " Liner	—							
	51	ECCENTRIC CRANK MARKING	1-SET	PRR PT D-75490-#D	—	—	—	—	—	—
	52									
	53									
	54									
	55									
	56	**GROUP 40—ENG. TRUCK, LEADING**	—							
	57	Engine Truck Arrangement	1-SET	P.RR.PT #C-85793-#D	—	—	—	—	—	—
	58	" " Frame (C. S. Co)	1	PRR.PT D-85692-D	CASTING ORD. IN P.D	—	—	—	—	—
	59	" " " Brace	—							
	60	" " " "	—							
	61	" " " Crosstie	—							

(Group 40 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 40—ENG. TRUCK LEADING (Cont.)								
	1	Engine Truck Pedestal LINERS	8	F-83174-C 412-A-130	ORD. IN P.D FURNISHED BY C.S.Co ON FRAME					
	2	" " "								
	3	" " " Cap	2	C-75837-K 402-A-177		402-A-177				
	4	" " " " ~~Brass~~ WEARING PLATE.	2	C-75837-K 402-A-179	PLATE					
	5	" " ~~Saddle~~ " NUT LOCK	8	F-80805-E 402-A-184	3/32 PLATE.	402-A-184				
	6	" " Equalizer (Over Box)	4	C-75837-K 402-A-178	MAT. ORD IN P.D	402-A-178				
	7	" " " " "								
	8	" " Bolster	1	E-64301-B 402-A-97	FURNISH BUSHINGS MAT. ORD. IN P.D.			X-15308 40-289		
	9	" " Center Plate								
	10	" " " " Washer	3	F-40282-B 402-A-182	PLATE MAT ORD. IN P.D					
	11	" " " ~~Pin~~ PIN GUIDE PLATE	1	PRR.PT. C-8944G-E	PLATE. MAT. ORD. IN P.D.					
	12	" " " " Bolt								
	13	" " " " " Key								
	14	" " Check Chain	2	C-75837-K 402-A-229	COMPLETE.	402-A-229				
	15	" " " " Bolt	2	402-A-231	FURNISH WASHER & KEY STEEL					
	16	" " " " Clevis	2	402-D-180		402-D-180				
	17	" " Swing Frame								
	18	" " " Link	4	E-64343-A 402-A-173				X-11977 40-288		
	19	" " " " Pins	2	402-B-179	FURNISH KEY MAT. ORD. IN P.D					
	20	" " " " " WASHERS	8	402-C-179						
	21	" " " ~~Pin~~ Key PINS	8	C-75837-L 402-C-180		402-C-180				
	22	" " " ~~Rocker~~ ~~LINK BUSHINGS~~	~~4~~	~~402-A-230.~~	~~O.H. STEEL CASEHARDENED~~					
	23	" " Connecting Links								
	24	" " " " Pins								
	25	" " Spring Hanger	4	C-75837-K 402-A-181	ROUGH FORGING ORD IN P.D					
	26	" " " " PINS	4	C-75837-K 402-B-180		402-B-180				
	27	" " " " Gib								
	28	" " " ~~Seat~~ WASHERS	4	402-D-179	PLATE					
	29	" " " "								
	30	" "								
	31	" " Safety Strap								
	32	" " Radius Bar								
	33	" " " " Brace								
	34	" " " " End								
	35	" " " " Pin								
	36	" "								
	37	" "								
	38	" " BRAKE CYL LOCKNUT	4	C-75837-K 402-A-183	PLATE					
	39									
	40									
	41									
	42									
	43									
	44	**GROUP 41—ENG. TRUCK TRAILING**								
	45	Trailing Truck Arrangement	1-SET	PRR.PT # C-88486-A						
	46	" " Bolster								
	47	" " Center Plate								
	48	" " " " Washer								
	49	" " " Pin								
	50	" " " " " Bolt								
	51	" " " " " " Key								
	52	" " Equalizer (Over Box)								
	53	" " " FRICTION JOINT SEAT	2	E-81654-C 412-A-111				X-12624 41-228		
	54	" " Frame (C.S.Co.)	1	PRR. PT C-88484-A	CAST. ORD IN P.D					
	55	" " " Brace								
	56	" " " "								
	57	" " " Crosstie								
	58	" " Pedestal WEARING PLATE	4	412-C-101	FURNISHED BY C.S.Co. ON FRAME					
	59	" " " Cap	2	E-61068-B 412-A-98				X-14918 41-227		
	60	" " " " Brace								
	61	" " Saddle								

(Group 47 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 41—ENG. TRAILING TRUCK (Cont.)								
	1	~~TRAILER~~ Truck Swing Frame	—							
	2	" " " Link	—							
	3	" " " " Pin	—							
	4	" " " " "	—							
	5	" " " Pin Key	—							
	6	" " Guide Frame	—							
	7	" " ~~Spring Hanger~~ BOX SPRING YOKE	2	D-88483-A 412-A-100	—	—	—	X-14879 41-229	—	—
	8	" " " " " " SEAT	4	D-88483-A 412-A-101	STEEL	412-A-101	—	—	—	—
	9	" " " " ~~Gib~~ " " BOLT	4	412-B-101	STEEL	412-B-101	—	—	—	—
	10	" " " " " " " JOINT RING	4	D-82394-D 792-C-88	—	—	X-178 79-864	~~X-178~~ ~~79-864~~	—	—
	11	" " " Seat	—							
	12	" " EQUALIZER FRICTION JOINT	2	F-60822-E 412-A-99	—	—	X-14857 41-122	—	—	—
	13	" " " Yoke	—							
	14	" " " " Hinge	—							
	15	" " " " Seat	—							
	16	" " " " Pin	—							
	17	" " " " Case Cap	—							
	18	" " Chafing Plate	—							
	19	" " Safety Strap	—							
	20	" " Check Chain	—							
	21	" " " " Bolt	—							
	22	" " " " Clevis	—							
	23	" " Center Spring	—							
	24	" " " " Case	—							
	25	" " " " Rod	—							
	26	" " " " Seat	—							
	27	" " Radius Bar END (C.S.CO)	1	E-88480-A 412-A-129	~~DA ST. ORD~~ ~~IN P.D~~	—	—	X-18833 41-249	—	—
	28	" " " " ~~Brace~~ JOINT PIN	4	412-E-108	—	440-S-350	—	—	—	—
	29	" " " " ~~Clamp~~ BALL	1	412-C-108	—	3" THICK X 6" DIA. FIN SIZES	—	—	—	—
	30	" " " " ~~End~~ " SOCKET	1	412-B-108	—	1½" THICK X 7½" " "	—	—	—	—
	31	" " " " Pin (FURNISH BRASS WIRE)	1	D-88483-A 412-B-110	MAT. ORD IN P.D	—	—	—	—	—
	32	" " " " " Keeper								
	33	" " FULCRUM	1R	E-48267-D 440-D-369-A	—	—	—	X-13176 41-115	—	—
	34	" " "	1L	" "	—	—	—	X-13177 41-116	—	—
	35	TRAILER TRUCK RADIUS BAR FULCRUM.	1	E-88479-A 412-A-128	—	—	—	X-18832 41-123-B	—	—
	36	" " " " " " BUSHINGS	1	" "	STEEL CASEHARDENED	—	—	—	—	—
	37	" " " " " " "	1	" "	" " "	—	—	—	—	—
	38	" " " " BALL SOCKET	1	412-A-108	—	1½" THICK X 7½" DIA. FIN SIZES	—	—	—	—
	39	" " " " " WASHER	4	412-D-108	—	½" THICK X 1¾ " " "	—	—	—	—
	40	**GR. 42—ERECTING CARDS, Elevations**								
	41	Elevation	—	420-A-79	—	—	—	—	—	—
	42									
	43	Bachkead Arrangement	—	P.R.R. PT# C-89926-~~B~~ D.	—	—	—	—	—	—
	44	**GR. 43—ERECTING CARDS, Cross Sec.**								
	45	Cross Section	—	430-A-71	—	—	—	—	—	—
	46	EXHAUST PIPE STUDS.	6	E-85719-A 442-A-113	FURNISH #6-SPLIT KEY.	442-A-113	—	—	—	—
	47	**GROUP 44—EXHAUST PIPE**								
	48	Exhaust Pipe								
	49	" Nozzle	1	D-90424-B ~~E-85002-D.~~ 442-A-112	443-A-42.	New Castings to be Ordered.	~~X-19469~~ ~~X-18348~~ X-18348 44-~~711~~ 714.	—	—	—
	50	~~Pipe~~ FIREDOOR PISTON WASHER	1	E-89830-~~B~~ C 452-B-41	O.H. STEEL		—	—	—	—
	51	" " " NUT	1	E-89830-~~B~~ C 452-D-41	O.H. STEEL		—	—	—	—
	52	" " " END PIECE	1	E-89830-~~B~~ C 452-E-41	—		X-14464 45-190	—	—	—
	53	~~Blower Ring~~ FIRE DOOR FOOT VALVE BODY	1	E-88948-A 453-A-45	E-89888-A.		~~X-21072~~ 45-189	—	—	—
	54	~~Exhaust Pipe Ball~~ " " AUTO. CYLINDER	1	D-88949-A. 453-A-42	—		X-21186 45-179	—	—	—
	55	" " ~~Flange~~ " " " CYL. BONNET	1	E-88947-D 453-A-41	—		X-21182 45-182	—	—	—
	56	" " ~~Gland~~ " " " " " GLAND	1	" "	BOTTOM		—	~~X-21196~~ 45-187 PTDS. BRONZE.	—	—
	57	" " ~~Rings~~ " " " " BOTTOM	1	E-88947-D 453-C-41	—		X-21185 45-184	—	—	—
	58	" " ~~Seat~~ " " " " NUT	1	E-88947-D. 453-B-41	—		—	X-21183 45-183 FORMULA #1	—	—
	59	" " ~~Sleeve~~ " " " " GLAND	1	453-F-41	TOP		—	X-21184 45-186 " #1	—	—
	60	" " ~~Spring~~ " " " " FITTING	1	453-D-41	—		—	X-21856 45-185 " #1	—	—
	61	" " " " " VALVE	1	453-E-41	—		—	X-21857. STICK. BRASS " #1	—	—
	62	(Group 44 Continued) " " " " PACKING	1-SET.	PURCHASED	P.R.R. PACKING #1 ORD. IN P.D.		—	—	—	—

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Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 44—EXHAUST PIPE (Cont.)								
	1	~~Separate Exhaust Pipe~~ FIREDOOR FOOT VALVE	1	F-88934-A 452-A-40	O.H.STEEL					
	2	" " " ~~Elbow~~ " " " CAP	1	F-88934-A 452-J-40	O.H.STEEL					
	3	" " " ~~Flange~~ " BUSHINGS	3	F-88940-A 452-B-40	OH-STEEL CASEHARDENED					
	4	" " " ~~Support~~ " "	1	F-88940-A 452-C-40	" " "					
	5	" " " ~~Joint Ring~~ " "	4	F-88940-A 452-D-40	" " "					
	6	" " " ~~Casing~~ " "	1	F-88940-A 452-E-40	" " "					
	7	FIRE DOOR WASHERS	4	F-88932-A 452-F-40	O.H-STEEL					
	8	" " "	5	F-88932-A 452-H-40	" "					
	9	FIRE DOOR PISTON ROD	1	E-89830-B,C 452-F-41	OH.STEEL	452-F-41		X-21078		
	10	" " " " CONNECTION	1	F-88937-A 452-H-41				45-191		
	11	**GROUP 45—FIREDOOR & FIREBRICK**								
	12	Fire Brick Arrangement	1-SET	C-80552 J	MAT. ORD. IN P.D.					
	13	Arch Tube	~~1~~ 4	"	"					
	14	FIRE DOOR ~~Covers~~ BENT PIPE NIPPLE	1	PRR.PT # F-91237 ADET # 31						
	15	" " ~~"~~ Setting " " "	1	" "	" " # 32					
	16	~~Box Cross Carrier~~ FIREDOOR PISTON ARRANGMENT	—	E-89830-B,C 452-A-42	PACKING ORD IN P.D					
	17	FIRE DOOR PISTON PACKING RINGS	3	E-89830-B,C 452-B-42			X-19020	45-194		
	18	FIRE DOOR (DOORS) TOP	1	E-88945-A 453-A-43			X-21070	45-180		
	19	FIRE DOOR (DOORS) BOTTOM	1	" "			X-21071	45-181		
	20	Fire Door Arrangement COMPLETE	1-SET	P.R.PT # D-88286-G I	ORD. IN P.D. FURNISHED BY PENNA-RR.					
	21	" " Frame	1	E-88285-I 453-A-44			X-18806	45-188		
	22	" " ~~Hinges~~ PINS	1	E-88944-A 453-A-40	O.H.STEEL	453-A-40				
	23	" " ~~Liner~~ PINS	4	453-B-40	" "	453-B-40				
	24	" " ~~Latch~~ PINS	2	453-C-40	" "	453-C-40				
	25	" " " ~~Guide~~ PINS	1	453-D-40	" "	453-D-40				
	26	" " ~~Catch~~ PINS	1	453-E-40	" "	453-E-40				
	27	" " ~~Register~~ BOLTS	1	453-F-40	" "					
	28	" " ~~Handle~~ PIN	1	453-H-40	" "	453-H-40				
	29	" " ~~Lever~~ PIN	1	453-J-40	" "	453-J-40				
	30	" " ~~Shaft~~ TOP OPERATING LEVER	1	F88939-A 453-A-46	CAST. ORD. IN PD					X-21118
	31	" " ~~Slide~~ CONNECTING ROD	1	F-88933-A 453-B-46	" " "					X-21119
	32	" " ~~Damper~~ BOTTOM OPERATING LEVER	1	F-88938-A 453-C-46	" " "					X-21117
	33	" " " ~~Details~~ DOOR GUIDES	1	F-88935-A 453-D-46		453-D-46				
	34	" " ~~Shield~~ " "	1	F-88935-A 453-E-46		453 E-46				
	35	" " " ~~Support~~ OPERATING PEDAL	1	F-88942-A 453-F-46				X-21374 45-192		
	36	" " ~~Angle~~ FOOT VALVE BRACKET	1	~~F-88943-A 453-H-46~~	OH STEEL	NOT USED ~~453-H-46~~				
	37	" " COMBINATION LEVER	2	F-88931-A 453-J-46				X-21080 45-193		
	38	" " NUT LOCK	2	F-88936-A 453-K-46		453-K-46				
	39	FIRE DOOR ~~Smoke Consumer~~ PISTON ROD PACKING WASHERS	1	E-89830-B 452-C-42	O.H.STEEL					
	40	" " " " " "	1	E-89830-B,C 452-D-42	O.H.STEEL					
	41	~~GROUP 46—FRAMES~~ " PACKING (3 RINGS)	1-SET	452-E-42 C-89448-A	WABCO ORD. IN P.D			X-18930 46-415-A		
	42	Frame—Pattern & Slotting	1R/1L	466-A-149				46-414-A X-18931		
	43	" —Drilling	—	466-A-150						
	44	" KEYS	4	" "	15/32 X 3 1/4 X 6 1/2 FIN. SIZES					
	45	" Cradle (COMBINED REAR FRAME & FOOT PLATE C.S.CO.	1	P.RR.PT # C-88485-~~A~~ B.D.	ORD. IN P.D COMPLETE WITH BUSHINGS					
	46	" ~~Rail~~								
	47	" Splice								
	48	" Pedestal Binder No. 1 FRONT	2	C-89448-A 462-C-99				X-16685 46-419		
	49	" " " No. 2 MAIN	2	462-B-99				X-16685 46-419		
	50	" " " No. 3 INTER	2	462-B-99				X-16685 46-419		
	51	" " " No. 4 BACK	1R	462-A-100				X-16686 46-420		
	52	" " " No. ~~4~~ BACK	1L	" "				X-17919 46-421		
	53	" " " Bolt								
	54	" " " "								
	55	"								
	56	Pedestal Shoe ~~Main~~ MAIN & OTHERS.	16	D-89871-A 462-A-144	CAST. ORD IN PD.				X-13959 46-416	PHOS. BRONZE
	57	" WEDGE BOLT SPRING	8	P.R.R.PT # F-85748-C	ORD. IN P.D					
	58	" Wedge—Main & OTHERS.	8	E-85933-B 462-B-97	MAT. ORD IN P.D	462-B-97				
	59	" " BOLT SPRING SEAT.	8	D-69148-A 463-F-26				X-15062. 46-417		
	60	" " Bolt—Main & OTHERS	8	" 463-E-26		463-E-26				
	61	" " " SPRING SEAT	8	" 463-H-26				X-16480. 46-418		

(Group 46 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 46—FRAMES (Cont.)								
	1	PEDESTAL WEDGE KEEPER (F I & M)	6	463-C-26	—	463-C-26	—	—	—	—
	2	" " " (REAR)	2	463-D-26	—	463-D-26	—	—	—	—
	3	" " ASSEMBLY (F I & M)	—	463-B-26	—	—	—	—	—	—
	4	" " " (REAR)	—	463-A-26	—	—	—	—	—	—
	5									
	6									
	7	**GROUP 47—FRAME DETAILS**								
	8	Frame Filling—Front	—							
	9	" " —Int.	—							
	10	" " —Back	—							
	11	" Wearing Plate (For Spr. Hanger)	—							
	12	Foot Plate	—							
P	13	Front Deck Casting	1	D-79527-H 473-A-137	—	—	—	X-12579 47-470	—	—
	14	Center Pin Guide	—							
	15	Back Head Brace	—							
	16	Expansion "	—							
	17									
P	18	FRAME CORNER BRACKET. RIGHT	1R	D-86596-C 473-A-138	—	—	—	X-13980 47-471	—	—
P	19	" " " LEFT	1L	" "	—	—	—	X-13981 47-472	—	—
P	20	FRAME BRACE CROSSTIE (BETWEEN 1ST & 2ND)	1	D-89750-A 473-A-135	—	—	—	X-18916 47-443	—	—
P	21	FRAME BRACE CROSSTIE (BETWEEN 2ND & THIRD)	1	D-89751-A 473-A-136	—	—	—	X-18917 47-444-A	—	—
P	22	FRAME BRACE CROSSTIE (BETWEEN 3RD & 4TH)	1	D-89751-A. 473-B-136	—	—	—	X-16644 47-444	—	—
	23	Ash Pan Crosstie	—							
P	24	Brace Crosstie FRAME BRACE (BACK OF 4TH DRIVER)	1	E-78566-B 472-A-347	—	—	—	X-17495 47-446	—	—
	25	" "	—							
	26	Center Pin Crosstie	—							
	27	Cylinder "	—							
	28	Furnace "	—							
	29	" "	—							
	30	Grate "	—							
	31	" "	—							
	32	Pedestal "	—							
P	33	GUIDE YOKE & BRAKE CYL CROSSTIE	1	C-89447-A 477-A-21	—	—	—	X-16616 47-445	—	—
	34	" "	—							
	35	Radius Bar "	—							
	36	" " " Clamp	—							
	37	Waist Sheet "	—							
	38	" " "	—							
	39	" " "	—							
	40	" "	—							
P	41	" "	2	E-78576-B 472-B-350	PLATE. MAT ORD. IN P.D	—	—	—	—	—
P	42	" " WASHERS.	~~25~~	" "	. STEEL	—	—	—	—	—
	43									
P	44	Furnace Bearer PAD & CLAMP ARR'G'T	—	PRR. PT # E-78568-C	—	—	—	—	—	—
	45	" " Brace	—							
P	46	" " Clamp	2	F-46526-C 472-B-353	—	472-B-353	—	—	—	—
P	47	" " ~~Filling~~ WEARING PLATE.	2	472-A-353	1/4" BRASS ORD IN. P.D PLATE.	—	—	—	—	—
	48	" " Knee	—							
	49	" " Link	—							
	50	" " Plate	—							
P	51	" " Pad (ON FRAME)	1R/1L	E-78567-A 472-A-348	—	—	—	X-17496 47-447	—	—
P	52	" " " (ON BOILER)	2	~~F~~-88180-A 472-A-351	FURNISH PIPE CAP & ELL.	—	—	X-17496 47-448 X-17497 X-12871 47-473	—	—
	53	" " Sheet—Front	—							
P	54	" " " —Back	1	F-79853-A. 472-A-352	PLATE. MAT ORD. IN P.D	—	—	—	—	—
P	55	FRAME BRACE CROSSTIE. WEARING BLOCK	2	473-A-135	#2. TOOL STEEL SPEC. #40, P.R.R	3" x 1½" x 4" FIN	SIZES	—	—	—
P	56	" " " " "	2	473-~~A~~C-136	" "	3" x 1½" x 4"	" "	—	—	—
P	57	" " " " "	2	473-B-136	" "	3" x 1½" x 4"	" "	—	—	—
P	58	FURNACE BEARER SHEET LINER (BACK)	1	472-A-352	PLATE. MAT ORD. IN P.D	—	—	—	—	—
	59									
	60									
	61									

(Group 47 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 47—FRAME DETAILS (Cont.)								
	1	Centering Device Arrangement								
	2	" " Body								
	3	" " Top Bearing								
	4	" " Shoe								
	5	" " Rod								
	6	" " " Stand								
	7	" " Spring Seat								
	8	" " Clamp								
	9	" " End Plates								
	10									
	11	Hinge Casting—L. P.								
	12	" " Bushing								
	13	" " Pin								
	14	" " " Keeper								
	15	" " —H. P.								
	16	" " Bushing								
	17	" " Pin		GRATES CONTINUED FROM—PAGE-26.						
	18	GRATE CONNECTION RODS	1	D-85115-E 522-A-855	—	522-A-855	—	—	—	—
	19	" " "	1	522-B 855		522-B-855	—	—	—	—
	20	" " "	1	522-C-855		522-C-855	—	—	—	—
	21	" " "	1	522-D-855		522-D-855	—	—	—	—
	22	" " "	1R/1L	522-E-855		522-E-855	—	—	—	—
	23	" " "	1	522-F-855		522-F-855	—	—	—	—
	24	GRATE SHAFT BEARING.	2	D-85115-E 522-C-638	—	522-C-638	—	—	—	—
	25	" LINKS	2	D-85115-E 522-A-641	—	522-A-641	—	—	—	—
	26	" BAR LOCK	4	D-85115-E 522-B-641	—	522-B-641	—	—	—	—
	27	DEAD GRATE PLATES	1R/1L	F-86250-B 522-D-641	PLATE. MAT. ORD IN. P.D	522-D-641	—	—	—	—
	28	" " "	1R/1L	522-E-641	" " "	522-E-641	—	—	—	—
	29									
	30									
	31	GR. 49—GAUGES, T'MPLATES & JIGS								
	32	STANDARD FIXTURES	1-SET 492A 750	—		—	—	—	—	
	33	FORGING TEMPLATES	1-SET 492A 751	—		—	—	—	—	
	34	DRILLING JIGS	1-SET 493A 204	—		—	—	—	—	
	35	GAUGES	1-SET 492A 753	—		—	—	—	—	
	36	LAYOUT TEMPLATES	1-SET 492A 752	—		—	—	—	—	
	37									
	38									
	39									
	40									
	41	GUIDE LINERS FRONT.-	2	503-A-124	— 3/8" PLATE X 3 3/4" X 8" FIN. SIZES	—	—	—	—	—
	42	" " BACK-	2	"	" — 3/8" — X 4 1/2" X 8 1/2" " "	—	—	—	—	—
	43	GROUP 50—GUIDES								
	44	Guide ~~Top~~ RIGHT (2 HALVES)	1	D-89852-A 503-A-124	MAT. ORD. IN P.D	5" X 5 5/8" X 77 1/8" FIN SIZES	—	—	—	—
	45	" —~~Bottom~~ LEFT (2-HALVES)	1	"	" " "	5" X 5 5/8" X 77 1/8" " "	—	—	—	—
	46	" ~~Liner~~ WASHERS	4	"	" —	2 1/2" DIA X 1 1/2" LONG. FIN. SIZES	—	—	—	—
	47	" " BOLTS (BOLTING GUIDES TOGETHER)	20	"	" —	—	—	—	—	—
	48	" ~~Yoke~~ BOLTS	4	"	" —	—	—	—	—	—
	49	" " ~~Bracket~~ BOLTS	4	"	" —	—	—	—	—	—
	50	" " ~~End~~ STUDS	4	"	" —	—	—	—	—	—
	51	" " "	—							
	52	" Filling	—							
	53	" Knee	—							
	54	" Block	—							
	55	" "	—							
	56	" Yoke Sheet	1R/1L	E-84183-B 502-A-144	PLATE. MAT. ORD. IN P.D	—	—	—	—	—
	57	" ~~Cover~~ " REINFORCING PLATE	1R/1L	"	" " "	—	—	—	—	—
	58									
	59									
	60									
	61									

(GRATES CONTINUED ON PAGE #25)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 51—GRATE ARRANGEMENTS								
	1	Grate Arrangement	1-SET	D-85114-F 514-A-32	FURNISH PINS & ETC.	—	—	—	—	—
	2									
	3	PROTECTING GRATE BASE	1	D-73594-C 523-A-87	—	—	X-14365 52-1765	—	—	—
	4	**GROUP 52—GRATE DETAILS**								
	5	Grate Bar	2	E-82703-D 522-A-623	—	—	X-13171 52-1774	—	—	—
	6	" "	1	E-57264-D 522-A-626	—	—	X-14342 52-1777-A	—	—	—
	7	" "	6	E-57265-D 522-A-625	—	—	X-14337 52-1777	—	—	—
	8	" "	1	E-57252-B 522-A-630	—	—	X-14339 52-1784	—	—	—
	9	Dead Grate & FRONT ASH PAN SUPPORT.	1	D-80780-A 523-A-88	—	—	X-13001 52-1776	—	—	—
	10	GRATE SHAKER LEVER	1	F-71471-C 522-A-644	ORD. IN P.D FOR. BY. P.R.R. WITH TOOLS	—	—	—	—	—
	11	Grate Center Rail—Front	1	D-85125-C 523-A-89	—	—	X-13006 52-1791	—	—	—
	12	" " " —~~Back~~ CENTER.	1	E-46955-D 522-A-631	—	—	X-13012 52-1785	—	—	—
	13	" Side Rail—~~R.~~	2	E-46950-B 522-A-636	—	—	X-13007 52-1790	—	—	—
	14	" " " —L.	-							
	15	" Drop Plate	1R	E-48252-C 522-A-627	—	—	X-13172 52-1778	—	—	—
	16	" " "	1L	" "	—	—	X-13173 52-1779	—	—	—
	17	" ~~" Lock~~ BAR	1	E-57250-D 522-A-634	—	—	X-14347 52-1787	—	—	—
	18	" ~~" Crank~~ BAR	2	522-B-634	—	—	X-16973 52-1787-A	—	—	—
	19	" " " ~~Handle~~ BAR	1	E-57267-C 522-A-617	—	—	X-14344 52-1768	—	—	—
	20	" " " ~~Lever~~ BAR	1	E-57266-C 522-A-618	—	—	X-14343 52-1769	—	—	—
	21	" " " ~~Lock Pin~~ BAR.	3	E-57251-B 522-A-620	—	—	X-14338 52-1771	—	—	—
	22	" " ~~" Rod~~ BAR	2	E-82705-D 522-A-616	—	—	X-13170 52-1767	—	—	—
	23	" " ~~" Shaft~~ BAR	8	E-82704-D 522-A-621	—	—	X-12551 52-1772	—	—	—
	24	" ~~" Support~~ SIDE RAIL SUPPORT (R)	1	E-46954-E 522-A-637	—	—	X-13010 52-1792	—	—	—
	25	" ~~Shaft~~ " " " (L)	1	" "	—	—	X-13011 52-1793	—	—	—
	26	" ~~Bearing~~ SIDE RAIL SUPPORT (FRONT)	1R	E-46947-E 522-A-628	—	—	X-13003 52-1780	—	—	—
	27	" " " " " (" ")	1L	" "	—	—	X-13004 52-1781	—	—	—
	28	" ~~Support~~ SHAFT DROP GRATE END BEARING.	1	F-49240-A 522-A-624	—	—	X-13300 52-1775	—	—	—
	29	" SHAFT BEARING.	1	F-79854-D 522-A-635	—	—	X-17776 52-1789	—	—	—
	30	" " " CENTER BEARING.	1	F-79852-B 522-A-629	—	—	X-12993 52-1782	—	—	—
	31	" ~~Lock Pin~~ " " " CAP	1	" "	—	—	X-12994 52-1783	—	—	—
	32	" ~~Lever Catch~~ PINS	4	D-85115-E 522-A-643	—	522-A-643	—	—	—	—
	33	" ~~" Cover~~ PINS	3	522-B-643	—	522-B-643	—	—	—	—
	34	GRATE LEVER ~~Rocking Bar Arm~~ FULCRUM.	1	F-79864-C 522-A-619	—	—	X-17781 52-1770	—	—	—
	35	GRATE LEVER ~~Grate Bar Connection~~ FULCRUM.	1	F-79865-C 522-A-632	—	—	X-17782 52-1786	—	—	—
	36	GRATE "SHAKER" LEVER STAND.	1	F-48147-B 522-A-633	—	522-A-633	—	—	—	—
	37	GRATE "ROD"	1	D-85115-E 523-A-100	—	523-A-100	—	—	—	—
	38	GRATE " ROD	1	523-B-100	—	523-B-100	—	—	—	—
	39	GRATE " ROD	1	523-C-100	—	523-C-100	—	—	—	—
	40	GRATE ~~Handle~~ ROD	1	523-D-100	—	523-D-100	—	—	—	—
	41	GRATE ~~Hanger~~ SHAFT.	1	523-E-100	MAT. ORD IN. P.D.	523-E-100	—	—	—	—
	42	GRATE " Lever ~~Hand~~	1	523-F-100	—	523-F-100	—	—	—	—
	43	GRATE " ~~Power~~ SHAFT.	1	523-H-100	MAT. ORD IN. P.D	523-H-100	—	—	—	—
	44	GRATE LEVERS	1	F-88506-A 523-J-100	—	523-J-100	—	—	—	—
	45	Grate ~~Shaker Arrangement~~ GRATE LEVERS	1	523-K-100	—	523-K-100	—	—	—	—
	46	" ~~" Cylinder~~ GRATE LEVERS	1	523-L-100	—	523-L-100	—	—	—	—
	47	" " ~~" Support~~ GRATE LEVERS	1	523-~~M~~N-100	—	523-~~M~~N-100	—	—	—	—
	48	GRATE PINS	2	522 ~~632~~-C-643	—	522 ~~632~~-C-643	—	—	—	—
	49	" PINS	1	522 ~~632~~-D-643	—	522 ~~632~~-D-643	—	—	—	—
	50	" PINS	4	522 ~~632~~-E-643	—	522 ~~632~~-E-643	—	—	—	—
	51	MUD RING CROSS BRACE (FRONT)	1	E-82702-B 522-A-614	—	—	X-12991 52-1764	—	—	—
	52	MUD RING CROSS BRACE (BACK)	1	E-54919-B 522-A-613	—	—	X-12992 52-1763	—	—	—
	53	GRATE SIDE RAIL SUPPORT -(FRONT)	—							
	54	" " " " (" ")	—							
	55	CORNER GRATE.	1	E-44349-K 522-A-615	—	—	X-12555 52-1766	—	—	—
	56	" "	1	E-45374-J 522-A-622	—	—	X-12554 52-1773	—	—	—
	57	DROP GRATE OPERATING LEVER BRACKET	1	E-85120-D 523-A-99	—	523-A-99	—	—	—	—
	58	" " " " " PIN.	1	523-B-99	FURNISH KEY.	523-B-99	—	—	—	—
	59	" " " " " LOCK	1	523-C-99	O.H-STEEL	523-C-99	—	—	—	—
	60	" " " " " ARR'G'T	1	523-D-99	—	—	—	—	—	—
	61	GRATE PINS	1	522 ~~632~~-F-643	—	522 ~~632~~-F-643	—	—	—	—
	62	" "	1	522 ~~632~~-H-643	—	522 ~~632~~-H-643	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 53—HAND RAILS & STEPS								
	1	Hand Rail	—	SEE ERECT CARD	—	—	—	—	—	—
	2	" " Balls								
	3	" " Column (ON SMOKE BOX FRONT.) 7"	2	E-45811-N 532-C-434	FORGING ORD. IN P.D	—	—	—	—	—
	4	" " " " " " " 7"	1	E-45811-N. 532 D-434	" "	—	—	—	—	—
	5	" " " (ON SIDE OF SMOKE BOX) 6"	2	D-82099-J 532-A-597	" "	—	—	—	—	—
	6	" " " (1ST. COURSE) 6"	2	532-F-597	" "	—	—	—	—	—
	7	" " " (1ST. COURSE BACK) 5"	2	532-E-597	" "	—	—	—	—	—
	8	" " " (2ND ~~COURSE~~ F & B) 5"	4	532-E-597	" "	—	—	—	—	—
	9	" " " (FIRE BOX. FRONT) 4"	2	532-C-597	" "	—	—	—	—	—
	10	" " " (FIRE BOX CENTER) 5"	2	532-E-597	" "	—	—	—	—	—
	11	" " " ~~Washer~~ BASE	3 ~~4~~	F-21684-G. 532-A-430	—	—	X-2305 53-507-A	—	—	—
	12	" " " " "	1	F-21680-G 532-A-431	—	—	X-2401 53-506-A	—	—	—
	13	" " " "								
	14	" " COLUMN. (FIRE BOX REAR) 8"	2	532-H-597	FORGING ORD IN P.D	—	—	—	—	—
	15	" " " " (SMOKE BOX) 6"	2	532-B-597	" "	—	—	—	—	—
	16	" " " " (" ") 6"	2	532-D-597	" "	—	—	—	—	—
	17	Hand Rail Column ~~Steps~~ BASE	2 ~~4~~	D-89451-A 532-A-428	—	532-A-428	—	—	—	—
	18	" " " " "	2	532-B-428	—	532-B-428	—	—	—	—
	19	" " " " "	2 ~~3~~	532-D-428	—	532-D-428	—	—	—	—
	20	" " " " "	2	532-E-428	—	532-E-428	—	—	—	—
	21	POST FOR PLATFORM OVER CYLINDER	4	F-85090-B 532-A-598	O.H. STEEL	—	—	—	—	—
	22	" " " " "	4	F-85090-B 532-A-434	O.H. STEEL	—	—	—	—	—
	23	HAND RAIL JOINT	—	PRR. PT # F-84666-B	2" O.D. BOILER FLUE.	—	—	—	—	—
	24	BENT HAND RAIL COLUMN (ON SMOKE BOX)	3	P.R.R. PT. F-85751-C	FORGING ORD. IN P.D	—	—	—	—	—
	25	Hand Rail Column Base R.S. (Front) 96 course	1	532-F-428	—	532-F-428	—	—	—	—
	26	" " " "	1	532-B-430	—	—	53-507-A	—	—	—
	27	Handles ON SAND BOX	2	532-A-599	MAKE FROM CD # ~~532~~-A-420.	532-A-599	—	—	—	—
	28	"								
	29	"								
	30	"								
	31	Cab Handle	1R/1L	F-81256-C 532-B-442	—	532-B-442	—	—	—	—
	32	GRAB HANDLE (ON RUN. BOARD)	2	F-86874-C 532-A-420	—	532-A-420	—	—	—	—
	33									
	34	(HANDRAIL ON BUMPER)	1	E-86536-B 532-A-595	—	532-A-595	—	—	—	—
	35	HAND RAIL JOINT	4	P.R.R. PT # F-84666-B.	2" O.D. BOILER TUBE. 5" LONG.	—	—	—	—	—
	36	Steps	—							
	37	Bell Step	—							
	38	" " Brace	—							
	39	Bumper Step—Front	2	214A-5	REINFORCED OAK WOOD -	—	—	—	—	—
	40	" " ~~Brace~~ BACK PLATE	2	532-D-596	PLATE. MAT. ORD IN P.D	—	—	—	—	—
	41	Bumper Step—~~Back~~ BRACE BRACKET.	1R/1L	E-86537-B 532-A-596	—	532-A-596	—	—	—	—
	42	" " Brace BRACKET	2	532-B-596	—	532-B-596	—	—	—	—
	43	~~Cab~~ Step " "	2	532-C-596	—	532-C-596	—	—	—	—
	44	" " ~~Brace~~ " ANGLE	2	214A5.	1/4" x 1 1/2" x 1 1/2 x 9" LONG	—	—	—	—	—
	45	~~Cylinder Step~~ " REINFORCING CLIPS	12	" "	#14-GAUGE. O.H. STEEL	—	—	—	—	—
	46	" " Bracket	—							
	47	Deck Step	2	PRR. PT # D-89754-A	PLATE MAT. ORD IN P.D	—	—	—	—	—
	48	" ~~Dynoma~~ Step BRACKET	2	" "	—	23-A-368	—	—	—	—
	49	" ~~Engine~~ Step "	2	" "	—	23-B-368	—	—	—	—
	50	" " ~~Brace~~ SUPPORT	1R/1L	" "	PLATE MAT. ORD. IN P.D	—	—	—	—	—
	51	Guide Step	—							
	52	Headlight Step	1R/1L	E-88183-A 532-A-418	PLATE. MAT ORD. IN P.D	—	—	—	—	—
	53	" " SUPPORT	1R/1L	" "	—	53-A-223	—	—	—	—
	54	Pilot Step	—							
	55	" "	—							
	56	Running Board Step	—	E-71096-H. 532-A-419	—	—	—	—	—	—
	57	" " " PLATE.	2	532-B-419	MAT. ORD IN P.D	—	—	—	—	—
	58	" " " ~~Brace~~ SUPPORT	2R/2L	532-C-419	" " "	—	—	—	—	—
	59	" " " "	—							
	60									
	61									

(Group 53 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 53—HAND RAILS & STEPS (Cont.)								
	1	Sand Box Step	2	E-71343-G 532-A-294	—	—	X-4711 53-35	—	—	—
	2	" " " BASE (UPPER STEP)	1	F-21270-D 532-A-433	—	—	X-9207 53-583	—	—	—
	3	" " " " (MIDDLE STEP)	1	F-46890-B 532-A-432	—	—	X-12985 53-584	—	—	—
	4	Side Sheet "	—							
	5	ELECTRIC GENERATOR OPER. ROD BRACKET.	1	542-A-527	FURNISH ½" PIPE FERRULE BOLT		—	—	—	—
	6	" " " " "	2	" "	—	54-A-86	—	—	—	—
	7	**GR. 54—H'DLI'TS, Lamps, Plates, Etc.**								
	8	Signal Fixtures—Location	—							
	9	" Lamp Bracket	—							
	10	" " "								
	11	Flag Bracket & LAMP SOCKET.	2	E-82529-A 542-A-399	—	—	X-11572 54-443	—	—	—
	12	" Socket (NOT. REQ'D ON FREIGHT LOCOS.)	~~2~~	F-81759-B 542-A-526	—	—	—	X-18094 54-599	—	—
	13	" ~~Bar~~ CAP	~~2~~	" "	—	—	—	X-18095 54-600	—	—
	14	Lamp Bracket ("CLASSIFICATION")	~~2~~ 1	D-69968-F 543-A-53	PLATE MAT ORD. IN P.D	—	—	—	—	—
	15	" Socket	—							
	16	Headlight Shelf	1	E-70678-G 542-B-380	PLATE MAT ORD. IN P.D	—	—	—	—	—
	17	" " Edge	—							
	18	" " Bracket	—							
	19	" " Handle	—							
	20	Train Number Indicator	—							
	21	Lamp (~~Steam Gauge~~) CAB LAMP.	1	E-68814-B 542-A-384	—	—	X-15956 54-447	—	—	—
	22	" ~~Bracket~~ CAP & SOCKET. (CAB LAMP)	1	P.R.R. PT # E-68815-C	ORD. IN P.D.	—	—	—	—	—
	23	" (Water Gauge)	—							
	24	" Bracket	—							
	25	" (Air Gauge)	—							
	26	" Bracket (CAB LAMP)	1	E-49343-C 542-A-382	CAST. ORD IN P.D FURNISHED BY P.RR	—	—	—	—	X-13305
	27	~~" Lubricator~~ TRAIN LIGHTING ¾" MALE HOSE COUPLING	~~4~~ 6	PRR PT # F-85086-A.	STEEL	—	—	—	—	—
	28	" ~~Bracket~~ LIGHTING ½ FEMALE " "	2	" " " "	—	—	—	—	—	—
	29	" " Engineer's " WATER TIGHT. CON.	3	PRR PT # F-85569-B.	—	—	—	—	—	—
	30	" " ~~Bracket~~ " " " " FITTING	3	" " F-85567-B.	—	—	—	—	STICK	—
	31	" " ~~(Booster)~~ " " " " " NUT	3	" " F-85566-B	—	—	—	—	STICK	—
	32	" " ~~Bracket~~ " " " " " GLAND	3	" " F-85568-B.	RUBBER ORD. IN P.D	—	—	—	—	—
	33	" " (Pyrometer) " " " " GASKET	3	" " F-85569-B.	3" MC KIM. GASKET. ORD. IN. P. D.	—	—	—	—	—
	34	" Bracket								
	35	~~" (Feed Water Gauge)~~ JUNCTION BOX GASKETS	3	542-A-542	1/16" RUBBER	—	—	—	—	—
	36	" Bracket								
	37	Number Plate "KEYSTONE"	1	C-89623-A 544-A-25	—	—	X-18183 54-601	—	—	—
	38	" " Figures "	1-SET	P.R.R. PT. D-25169-A	—	—	—	—	—	—
	39	Builder's Card	—							
	40	Name Plate	—							
	41	Patent Plate—Superheater	1	P.R.R. PT E-72760-D	—	—	—	—	—	—
	42	" "	—							
	43	Dynamo Bracket	1	D-86511-D 543-A-78	PLATE. MAT. ORD. IN P.D	—	—	—	—	—
	44	Electric Wiring	—	SEE PAGE -30-						
	45	BADGE PLATE.	2	E-80141-A 542-A-~~377~~537	—	—	—	—	X-451 54-441-A JUNK BRASS	—
	46	" " BOLTS	4	542-A-383	FURNISH NUT.	—	—	—	STICK BRASS	—
	47	PISTON ROD PATENT BADGE PLATE	2	F-48971- 50-D-51-A	—	—	—	—	X-13268 54-457	—
	48	BADGE PLATE LETTERS & FIGURES.	—	P.R.R. PT # D-72735-A	—	—	—	—	—	—
	49	AIR PUMP VALVE OPER. ROD BRACKET.	1	542-A-527	FURNISH ½" PIPE FERRULE. & BOLT.	—	—	—	—	—
	50	" " " " " "	2	" "	—	54-A-86	—	—	—	—
	51	METHOD OF SEALING WIRES IN CLASS. LAMP	—	P.RR PT-# E-84141-B	—	—	—	—	—	—
	52	DYNAMO STEAM SUPPLY PIPE CLAMP	3	P.RR.PT F-80007-A	ORD. IN P.D. FROM P.R.R	—	—	—	—	—
	53	" DRAIN " "	2	" "	" "	—	—	—	—	—
	54	TRAIN CONTROL TRACK RECEIVER WIRE CLAMPS	2	F-85208-K D-89925-A	MICARTA BOARD	MAKE IN OUR SHOP	—	—	—	—
	55	TRAIN CONTROL BRACKET	2	542-A-528	O.H. STEEL	542-A-528	—	—	—	—
	56	TENDER OUTLET BOX APPLICATION	—	PRR. PT E-74370-B	—	—	—	—	—	—
	57									
	58	DECKLIGHT SHIELD.	1	F-90215-A 542-A-534	PLATE	—	—	—	—	—
	59	" " CLAMP.	1	" "	—	54-A-89	—	—	—	—
	60	" " "	1	" "	—	54-A-90	—	—	—	—
	61	METHOD OF APPLICATION GENERATOR OIL CUP BRACE	—	PRR-PT-E-83455-A	—	—	—	—	—	—
	62	GENERATOR OIL CUP BRACE	1	E-83455-A 542-A-536	PLATE MAT. ORD. IN. P.D	—	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 55—Injector & Feed Water								
	1	Injector								
R	2	" Bracket	1L	D-88764-C 553-A-43	—	—	—	55-321 X-17533	—	—
R	3	" Check (BACKHEAD TYPE USED ON L.S)	1	PRR. PT E-83284-E	ORD. IN P.D	—	—	—	—	—
R	4	" " ~~Valve~~ JOINT RING	1	D-82394-D 792-E-91	—	—	X-7592 79-865	—	—	—
R	5	" ~~Cap~~ BRACKET BRACE	1	E-89586-A 552-A-340	—	552-A-340	—	—	—	—
	6	" " Nut								
	7	" " Sleeve								
R	8	" " Flange	1L	E-70714-K 552-A-239	—	—	—	X-14896	X-16710 55-323	FORMULA #1
R	9	" " ~~Baffle Plate~~ FLANGE.	1	D-60841E 554A9	—	—	—	55-395	—	—
	10	" Extension Handle								
	11	" " " [redacted]								
	12	" Universal Joint								
	13	" Pipe Connection								
R	14	" OPERATING VALVE HANDLE BRACKET	1	E-89829-A 552-A-342	PLATE. MAT. ORD IN. P.D	—	—	—	—	—
	15	Delivery Pipe Coupling Nut	—							
	16	" " " Sleeve	—							
	17	" " " "	—							
R	18	METHOD OF SUPPORTING INJ. STARTING VALVES	—	P.R.R.PT F-80599-A	—	—	—	—	—	—
R	19	Feed Hose CONNECTION-BETWEEN ENGINE & TENDER	—	PRRR PT D-89948-A	—	—	—	—	—	—
R	20	" " & INJECTOR PIPE APPLICATION	—	P.R.R.PT. #D-87495-B	—	—	—	—	—	—
	21	" " Clamp								
R	22	" Pipe Hanger	2	F-81142-A 552-B-236	—	552-B-236	—	—	—	—
	23	Strainer	—							
	24	" Body	—							
	25	" Cap	—							
	26	" Nut	—							
	27	" Sleeve	—							
	28	" Swivel	—							
R	29	" Coupling Nut	27	F-80777-A. 632-B-529	FURNISH RUBBER WASHER	—	—	—	X-7832 82-116	FORMULA # 2
	30	" " " Sleeve	~~1~~	~~F-77033-B~~ ~~552-A-238~~ E-89438-A	CAST. ORD IN P.D	NOT REQD. PENNA RR WILL FURNISH ON ~~TANK~~	—	—	—	~~X-6666~~
P	31	CENTRIFUGAL PUMP BRACKET	1	552-A-331	—	—	—	X-18926 55-387	—	—
R	32	HOSE CONNECTION END.	1	E-89480-B. 552-A-345	—	—	—	—	X-15877 55-398	FORMULA #1
R	33	FEED WATER HOT WATER PUMP BRACKET	1	E-89714-A 553-A-60	—	—	X-18923 55-390	—	—	—
R	34	INJECTOR STEAM SUPPLY PIPE SUPPORT	1	F-88784-B 552-A-344	—	552-A-344	—	—	—	—
R	35	" " " " "CAP	1	" "	—	55-A-70	—	—	—	—
	36	Feed Water Heater								
R	37	" " " Support (HEATER BASE)	1	E-89862-B 553-A-61	—	—	—	X-19027 55-389	—	—
	38	" " " Pump								
	39	" " " " Bracket								
R	40	FEED WATER HEATER COLD WATER SUPPLY PIPE	1	E-89440-A 552-A-338	ORD. IN. P.D 2½" EX. HEAVY PIPE	—	—	—	—	—
R	41	" " " " " " " FLANGE	12	F-85170-A. 633-E-29	BOTTOM	—	—	X-18364 63-1004	—	—
R	42	" " " " " " " FLANGE	1	F-85169-A 632-A-833	TOP	—	—	X-18363 63-1020	—	—
R	43	" " " EX. STEAM SUPPLY PIPE	1R	E-86335-B. 552-A-332	ORD. IN P.D. 5" EX. HEAVY PIPE	—	—	—	—	—
R	44	" " " " " " " "	1L	552-B-332	" "	—	—	—	—	—
R	45	" " " " " " " PIPE FLANGE	4	F-85173-A 633-A-29	—	—	—	X-18367 63-1000	—	—
R	46	" " " SUPPLY PIPE	1	F-89437-A. 552-A-339	ORD. IN P.D 5" EX. HEAVY PIPE	—	—	—	—	—
R	47	" " " " " FLANGE	2	F-85173-A 633-A-29	—	—	—	X-18367 63-1000	—	—
R	48	" " " HOT WATER SUPPLY PIPE	1	E-89664-A 552-A-335	—	—	—	X-18997 55-392	—	—
R	49	" " " ADAPTER FOR 2½" COLD WATER DISCHARGE PIPE	1	E-89443-A 552-A-336	—	—	X-18922 55-388	—	—	—
R	50	" " " ADAPTER FOR 3" COLD WATER SUCTION PIPE	1	E-89787-A 552-A-341	—	—	X-19004 55-393	—	—	—
R	51	" " " HOT WATER SUPPLY PIPE.	1	E-89445-A 552-~~B~~A-334	—	—	—	X-18929 55-391	—	—
R	52	FEED WATER BOILER CHECK VALVE.	1	D-75665-G. & E-86151-B 554-A-10	—	—	—	—	X-17203 55-396	FORMULA #1
R	53	" " " " CAP	1	" "	—	—	—	—	X-18470 55-397	FORMULA #2
R	54	" " " " WASHER	1	" "	ORD. IN P.D	—	—	—	—	—
R	55	" " " " BOLT	1	" "	O.H. STEEL	—	—	—	—	—
R	56	" " " " VALVE SPRING.	1	P.R.R. " " F-86150-B	ORD. IN. P.D	—	—	X-19029	—	—
R	57	FEED WATER HEATER FLANGE.	1	F-85767-C 633-D-29	—	—	—	63-1003	—	—
R	58	" " " "	1	F-85768-A 633-B-29	—	—	—	X-18430 63-1001	—	—
	59									
	60									
	61									

(Group 55 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 55—Injector & Feed Water (Cont).								
	1	AUTO. TRAIN EQUIPMENT BOX SUPPORT.	1	542-A-535	MAT. ORD. IN. P.D.	542-A-535				
	2	" " " " "	1	542-B-535	" "	542-B-535				
	3	AUTOMATIC TRAIN CONTROL PICK UP CORE ARR'G'T	—	P.R.R. PT # D-90369-A						
	4	" " " " BRACKET	2	" "	PLATE.	54-A-91				
	5	AUTOMATIC TRAIN CONTROL VALVE CASING	1	D-81914-K 543-A-77	PLATE	MAT. ORD IN P.D.				
	6	AUTOMATIC TRAIN CONTROL IN CAB- APPLICATION	—	PRR. PT # C-81802-F						
	7	" " " LIST OF EQUIPMENT	—	PRR PT # D-89861-BC						
	8	TRAIN CONTROL MATERIAL	—	54-M0-120						
	9	ENGINE WIRING MATERIAL	—	54-M0-121						
	10	TRAIN CONTROL EQUIPMENT BOX	—	PRR. PT # C-90185-A						
	11	ELECTRIC MARKER LIGHT. APPLICATION	—	PRR. PT # D-83272-HI	MI-A. CLASS					
	12	" GENERATOR & HEADLIGHT APPLICATION	—	" " # D-74071-H	- MI-A CLASS					
	13	" HEADLIGHT. SUPPORT LOCATION	—	" " D-72792-G	MIA CLASS					
	14	" EQUIP. & CAB CONDUIT DIAGRAM	—	" " D-84339 # GI	MIA. CLASS					
	15	" FLEXIBLE CON. BET. HEADLIGHT & GENERATOR	—	" " D-89465-A	MI-A CLASS					
	16	" WIRING DIAGRAM	—	" " D-8458-HG	MIA CLASS (TENDER & CLASSIFICATION LAMPS OMITED)					
	17	AUTOMATIC TRAIN CONTROL DIAGRAM	—	" " D-81833-F	MIA CLASS.					
	18	" " " WIRING DIAGRAM	—	" " D-90003 A	MIA CLASS					
	19	" " FEED VALVE PIPING ARR'GT.	—	" " F-89301-BC						
	20	" " PIPING DIAGRAM.	—	" " D-82720-HK						
	21	" " CONTROL FEED VALVE BRACKET	1	F-84384-B C 542-A-529	MAT. ORD. IN P.D	542-A-529				
	22	" " " LIMITING RES. SUPPORT	2	F-82362-A 542-A-531		542-A-531				
	23	" " " RESET SWITCH SUPPORT	1	F-84000-B 542-A-530	MAT. ORD IN P.D	542-A-530				
	24	" " LOCKING ARR'GT FOR TRACK RECIEVER JUNCTION BOX	—	E-82943-A 542-A-533						
	25	" " " " " " Lock	1	542-B-533	SPRING STEEL	542-B-533				
	26	" " " " " " Stud	1	542-C-533	O.H STEEL					
	27	" " CONTROL PIPE CLAMPS	2	PRR PT- E-84763-A		54-A 87				
	28	" " " " "	2	" "		54-A-88				
	29	" " " " " " ARR'GT	—	" "						
	30	" " " " FILLER BLOCKS	1	F-84733-A 542-A-532	MAPLE					
	31	" " " " "	1	F-84636-A 542-B-532	" "					
	32	ELECTRIC GENERATOR STEAM VALVE BRACKET LOCATION	—	P.R.R. PT # F-81258-A						
	33	TERMINAL BLOCK DETAILS.	1-SET	P.R.R.PT. E-84495-B.	MAKE IN OUR SHOP					
	34	BOILER SAFETY VALVE JACKET	2	F-90123-A 572-A-131	MAT. ORD IN P.D	MAT. ORD. IN P.D				
	35	BACKHEAD JACKET COLLAR	1	P.R.R. PT D-80828-A	MAT. ORD IN P.D					
	36	GROUP 57—LAGGING & JACKET								
	37	Lagging (Boiler) (SECTIONAL MAGNESIA)	1-SET	PRR. PT D-89825-AB.	ORD. IN P.D					
	38	" Panel	—							
	39	AUTOMATIC TRAIN CONTROL LIMITING RES. LOCATION.		F-91276	THIS CD NOT USED ON 1117. FOR FUTURE ONLY.					
	40	" " " " SUPPORT METHOD OF BENDING.		F-82362-B.	THIS WAS NOT DONE ON 1117. FOR FUTURE. ONLY.					
	41	" Angle Iron	—							
	42	JACKET ARR'G'T	1-SET	P.R.R. PT D-89825-A.	ORD IN P.D					
	43	Jacket (Boiler) BACKHEAD	1-SET.	P PR PT # E-84662-A.						
	44	" Band	—							
	45	" " ARRANGMENT	—	572-A-89						
	46	" Clamp	6	E-70235-B 572-A-89		57-A-15				
	47	" BAND CLAMP.	4	E-70235-B. 572-B-89	FORGING ORD IN. P.D.					
	48	Plug Casing	8	F-82527-A 572-A-130	ORD. IN P.D					
	49	" " ARCHTUBE, FIREBOX, & SHELL	20	F-82527-A. 572-C-130	" "					
	50	" Cover	—							
	51	Cylinder Lagging	—							
	52	" Jacket	—							
	53	Gauge Cock Casing	—							
	54	Boiler Test Plate Casing	—							
	55	JACKET CLAMP. (UNDER SHEEL)	56	F-70234-B 572-A-88.	CAST. ORD IN P.D					X-6550
	56	METHOD OF SECURING JACKET	—	F-68949-D 572-A-93						
	57	JACKET CLAMPS	16	" 572-A-93		57-A-16				
	58	HIP JOINT CASING.	1R/1L	D-78574-D 573-A-14	PLATE. MAT. ORD. IN P.D					
	59	" " THROAT CASING.	1R/1L	" "	" " "					
	60	" " CASING THIMBLES	2	" "	1 3/8" I.D. 2 3/8" O.D. X 2 4/16 LONG. TUBING					
	61									

WL GENERATOR OIL CUP BRACE

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 58—LINK MOTION								
	1	Link PAIRED.	2	E-88917-A 582-A-257	MAT. ORD IN P.D	582-A-257				
	2	" Block	2	583-C-44	FURNISH WIRE.	583-C-44				
	3	" " Bushings								
	4	" ~~Chocks~~ ASSEMBLY	—	583-D-44						
	5	" ~~Filling~~ BUSHINGS	4	" "	STEEL CASEHARDENED					
	6	" Plate	—							
	7	" Saddle	4	D-79555-K 583-A-44	FORGINGS. ORD IN P.D.					
	8	" " ~~Pin~~ DOWELS	8	" "	STEEL					
	9	" TAIL Bushings	2	582-A-257	STEEL CASEHARDENED					
	10	" Support DOWELS.	4	582-A-6	STEEL					
	11	" " Bushings	4	" "	" "					
	12	~~Motion Bearer Crosshead~~ Combination Lever. R.Hand.	1R.	582-A-260	AXLE STEEL MAT. ORD. IN P.D	58-A-175				
	13	" " ~~Knee~~ " Bushings.	1-SET.	" "	steel. Rosehardened.					
	14	Radius Rod—~~Front Section~~	1R/1L	D-79555-K 582-B-211	AXLE STEEL MAT. ORD. IN P.D.	58-A-160				
	15	" " ~~Rear~~ " THIMBLES	2	" "	CH. STEEL					
	16	" " Lifting Link	2	E-79734-C 582-B-209	AXLE STEEL MAT. ORD. IN P.D	58-B-159				
	17	Combination Lever	1-Left Hand. Only. ~~1R~~ 1L	D-79555-K 582-A-210	AXLE STEEL MAT. ORD. IN P.D	58-A-155				
	18	" " Bushings	1-Set. ~~2~~-SET	" "	STEEL CASEHARDENED					
	19	" " Pin								
	20	Union Link	1R 1L	D-79555-K. 582-A-212.	MAT. ORD. IN P.D AXLE STEEL.	58-A-157				
	21	" " Pin	2	" "	STEEL CASEHARDENED FURNISH. DOWELS, PIPE PLUGS.					
	22	" " Bushings	2	" "	STEEL.					
	23	~~Slide Block~~ RADIUS ROD HANGER PINS	2	582-B-209	STEEL. CASEHARDENED.					
	24	" " ~~Cap~~ " " " BUSHINGS	2	" "	" " "					
	25	" " ~~Bottom~~ "	—							
	26	" " Trunnions	—							
	27	RADIUS ~~Liners~~ ROD PINS PIN-A	2	582-B-211	FURNISH DOWELS & NUTS					
	28	" " " PIN-B	2	" "	" "					
	29	" " " PIN-C	2	" "	" "					
	30	Transmission Bar	—							
	31	" " Hanger	—							
	32	" " Link	—							
	33	" " Pin	—	[illegible]						
	34	Baker Valve Gear Frame Drilling	—							
	35	" " " " Extension	—							
	36	LINK, LIFT SHAFT & BRAISE HANGER SUPPORT	1R	D-71553-E 584-A-6				X-16642 58-357		
	37	" " " " " "	1L	" "				X-16643 58-358		
	38	METHOD OF SETTING VALVES	—	P.R.R. PT D-27370-F						
	39									
	40	**GROUP 59—Oil Cups & Lubricator**								
	41	Oil Cups BELL STAND OIL CUP CAP	2	592-N-223	STEEL					
	42	Crosshead Oil Cup	—							
	43	" " " Cap	—							
	44	" " " Nut	—							
	45	" " " Stem	—							
	46		—							
	47	Eng. Truck Oil Cup (ON FRAME)	~~4~~	E-80268-H ~~592-B-350~~	~~not Req'd with Cast. Steel Frame.~~ TRUCK	X-11739 ~~59-458~~				
	48	" " " " ~~Cap~~ CLAMPS (ON FRAME)	4	E-80268-H 592-C-350		592-C-350				
	49	" " " " ~~Nut~~ ARRG'T	2-SET	E-80268-H 592-A-350						
	50	" " " " ~~Stem~~	2	F-70009-B 592-A-352	ORD. IN P.D					
	51									
	52	Ecc. Rod Oil Cup	—							
	53	" " " " Cap	—							
	54	" " " " Nut	—							
	55	" " " " Stem	—							
	56									
	57	Guide Oil Cup "PRIME"	2	PRR. PT# F-66917-B	ORD. IN P.D					
	58	" " " Cap LOCK	4	" "	PLATE					
	59	" " " Nut	—							
	60	" " " Stem	—							
	61	" " CUP APPLICATION	—	P.R.R. PT# E-83889-D						

(Group 59 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 59—Oil Cups & Lubricator (Cont.)								
	1	Link Oil Cup	2	592-A-343	ORD. IN. P.D	—	—	—	—	—
	2	" " " Cap	—							
	3	" " " Nut	—							
	4	" " " Stem	—							
	5									
	6	Link Lifter Oil Cup	2	E-78768-D 592-A-343	ORD. IN. P. D	—	—	—	—	—
	7	" " " " Cap	—							
	8	" " " " Nut	—							
	9	" " " " Stem	—							
	10	LINK SUPPORT OIL CUP.	4	592-B-343	ORD. IN P.D	—	—	—	—	—
	11	Radius Rod Oil Cup	2	592-A-343	" "	—	—	—	—	—
	12	" " " " Cap	—							
	13	" " " " Nut	—							
	14	COMBINATION ~~Stem~~ LEVER OIL CUP.	4	592-A-343	ORD. IN P. D	—	—	—	—	—
	15	COMBINATION LEVER OIL CUP.	2	592-B-343	" "	—	—	—	—	—
	16	Rockshaft Oil Cup	—							
	17	" " " Cap	—							
	18	" " " Nut	—							
	19	" " " Stem	—							
	20									
	21	Rev. Shaft ~~Oil Cup~~ ARM OIL CUP CAP.	2	592-B-343.	ORD. IN. P.D	—	—	—	—	—
	22	" " " " Cap	—							
	23	" " " " Nut	—							
	24	" " " " Stem	—							
	25									
	26	Transmission Oil Cup	—							
	27	" " " Cap	—							
	28	" " " Nut	—							
	29	" " " Stem	—							
	30	POWER REVERSE GEAR OIL CUP.	1	PRR. PT # D-89563-A.	ORD. IN P.D	—	—	—	—	—
	31	Piston Rod Oil Cup								
	32	" " " " Cap								
	33	" " " " Nut								
	34	" " " " Stem								
	35	POWER REVERSE GEAR OIL CUP APPLICATION	—	592-A-353		—	—	—	—	—
	36	Valve Stem Oil Cup								
	37	" " " " Bracket								
	38	" " " " Cap								
	39	" " " " Nut								
	40	" " " " Stem								
	41									
	42	Main Rod Grease Cup CAP.	2	D-82261-C 592-A-345		—	—	X-14185 59-455	—	—
	43	" " " "								
	44	" " " " Cap								
	45	" " " " Nut								
	46	" " " " Stem								
	47	" " " " Plug								
	48									
	49	Side Rod Grease Cup CAP	2	D-82261-C 592-A-345		—	—	X-14185 59-455	—	—
	50	" " " " Cap	6	592-B-345		—	—	X-14458 59-456	—	—
	51	" " " " Nut								
	52	" " " " Stem								
	53	" " " " Plug								
	54									
	55	Trailer Truck Oil Cup	—							
	56	" " " " Cap	—							
	57									
	58	Throttle Lever Support Oil Cup	—							
	59	" " " " " Cap	—							
	60									
	61									

(Group 59 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 59—Oil Cups & Lubri. (Cont.)								
	1	Valve Rod Crosshead Guide Oil Cup	]							
	2	" " " " " " Cap								
	3	" " " " " " Nut								
	4	" " " " " " Stem								
	5	" " " " " " Plug								
	6									
	7	Oil Can Holder	—							
	8	" " " Support	—							
D	9	LUBRICATOR DRIVE ROD EXTENSION	1	592-A-524	AXLE STEEL FURNISH NOTS.	592-A-524	—	—	—	—
D	10	" " " WASHER	1	" "	1½" DIA x ⅛" THICK. FIN SIZES		—	—	—	—
D	11	LUBRICATOR DRIVE ROD	1	FOR. WITH LUBRICATOR.	ORD. IN P.D	—	—	—	—	—
	12									
	13									
	14									
D	15	Lubricator (MECHANICAL DETROIT. 8-FEED MOD-A. 24-PINTS)	1	DETROIT	ORD. IN P.D FURNISHED BY P.R.R	—	—	—	—	—
	16	" Marking	—							
	17	" Support	—	See Back Steam Chest Head		—	—	—	—	—
	18	" " Brace	—							
D	19	HYDROSTATIC LUBRICATOR	1	DETROIT. 3-FEED 3-PINTS.	ORD. IN P.D	—	—	—	—	—
	20	Flange Lubricator								
	21	" " Support								
D	22	HYDROSTATIC LUBRICATOR BRRACKET.	1	P.R.R. PT # E-90718-AB	PLATE. MAT ORD. IN P.D	E-90718-AB	—	—	—	—
D	23	" " " WASHERS	4	" "	" 3" DIA x 1" THICK		—	—	—	—
D	24	" " LOCATION	—	" "	"	—	—	—	—	—
D	25	Steam Chest Oil Plug IN CYLINDER NECK	4	592-A-525	¾" EX. HEAVY PIPE.	—	—	—	—	—
	26									
	27	Bell Ringer Oil Cup								
	28	Radial Buffer Oil Cup								
	29									
	30									
	31	**GROUP 60—Oil Burning Attachments**								
	32	Oil Burning Arrangement								
	33	Oil Burner								
	34	" " Lip								
	35	" " Support								
	36	" Feed Quadrant								
	37	" Operating Nandle								
	38	" Heater								
	39	" " Ends								
	40	" " Nuts								
	41	" " Bushing								
	42	" " Sleeve								
	43	" " Casing								
	44	" " Support								
	45	" " "								
	46									
	47									
	48									
	49									
D	50									
D	51	1 3/4" INITIAL LETTERS	—	P.R.R. PT # C-80747-B			—	—	—	—
D	52	1 3/4" NUMERALS FOR LOCO. CABS	—	P.R.R. PT # D-54032-B			—	—	—	—
D	53	1 3/4" ALPHABET FOR OWNERSHIP LEGENDS	—	P.R.R. PT # D-20709-B			—	—	—	—
D	54	OWNERSHIP MARKING ON CAB.	—	P.R.R. PT # E-18811-F			—	—	—	—
D	55	LETTERING & STRIPING ON CAB	—	P.R.R. PT # E64564-D.			—	—	—	—
	56	**GROUP 61—PAINTING**								
	57	Lettering								
	58	Numbering								
D	59	STRIPING ON ENGINE TRUCK WHEELS	—	P.R.R. PT # F-64562-A			—	—	—	—
D	60	~~STRIPING ON DRIVING & TRAILER WHEELS.~~	—	~~P.R.R. PT # E-64563-B~~			—	—	—	—
D	61	6" NUMERALS FOR CAB	—	P.R.R. PT # C-18119-D			—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		# 57- GROUP CONTINUED.								
		~~GROUP 72 RODS Main and Side~~		D-89825-A.						
	1	~~Rods Main~~ JACKET. BRACKETS	1	572-A-132		572-A-132				
	2	~~Front Stub~~ " "	1	572-B-132		572-B-132				
	3	" " ~~Strap~~ " "	1	572-C-132		572-C-132				
	4	" " ~~Key~~ " "	2#	572-D-132	Reforge Brackets To suit Rev-D. in E.S.	572-D-132				
	5	" " ~~Washer~~ " "	1	572-E-132		572-E-132				
	6	" " ~~Brass~~ " "	1	572-F-132		572-F-132				
	7	" " " "	1#	572-H-132		572-H-132				
	8	" "	1	572-J-132		572-J-132				
	9	~~Main Stub~~ " "	1	572-K-132		572-K-132				
	10	~~" " Strap~~ " "	1	572-L-132		572-L-132				
	11	~~" " Wedge~~ " "	1	572-M-132		572-M-132				
	12	~~" " Filling~~ " "	1	572-N-132		572-N-132				
	13	~~" " Brass~~ " "	2	572-P-132		572-P-132				
	14	~~" " " " "

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT								
NOT USED	1	Pilot	1 SET	D-71744-C	MAT. ORD IN P.D	—	—	—	—	—
	2	" ~~Bottom~~ BRACE	1	~~622-A-20~~						
	3	" Bracket SUPPORT	1	~~622-C-22~~	" "	~~622-C-22~~				
	4	" Bottom ~~Plate~~ BRACE	1	~~622-A-21~~	" "	~~622-A-21~~				
	5	" Corner ~~Iron~~ BRACE	1	~~622-B-21~~	—	~~622-B-21~~				
	6	" ~~Knee~~ BRACE	1 HR / 1 IL	~~622-B-22~~	MAT. ORD IN P.D	~~622-B-22~~				
	7	" Strap	1 IR / 1 IL	~~622-D-22~~	" " "	~~622-D-22~~				
	8	" Brace								
	9	GOVERNOR COPPER PIPE CON: AT JACKET NUT	2	632-B-835	—	—	—	—	COLD. DRAWN HEX. BAR STOCK	—
	10	" " " " " " UNION SWIVEL	2	632-B-838	—	—	—	—	" "	—
	11	~~Rail Guard~~ " " " " SWIVEL COLLAR	2	632-B-548	—	—	—	—	STICK BRASS	—
	12	" " " " " " CENTER RING	2	632-B-834	—	—	—	—	" "	—
	13	AIR PUMP UNION ASSEMBLY (ON PUMP) ~~Steam Plow~~	—	E-67612-C 632-A-516	—	—	—	—	—	—
	14	" " " STUD SWIVEL (")	2	632-B-516	O.H. STEEL	F-992 632-B-516	—	—	—	—
	15	" " " STUD (")	2	632-C-516	" "	F-991 632-C-516	—	—	—	—
	16	" " " " NUT (")	2	632-D-516	" "	F-993 632-D-516	—	—	—	—
	17	AIR RES. UNION STUD SWIVEL (IN END RES.)	1 OR	F-79365-A 632-A-543	BAR STEEL	F-1332 632-A-543	—	—	—	—
	18	" " " STUD (")	1 OR	F-77481-A 632-A-512	O.H. STEEL	F-1265 632-A-512	—	—	—	—
	19	REDUCING ELL (MAIN RESERVOIR)	1	F-80233-A 632-A-513	CAST. ORD. IN P.D	—	—	—	—	X-17840
	20	" " " "	1	632-B-513	" " "	—	—	—	X-17841 MADE OF BRASS ON 1117.	X-17841 ONE FOR FUTURE.
	21	~~GROUP 63—PIPE FITTINGS~~ AIR RESERVOIR FITTING	1	632-B-516	O.H. STEEL	632-B-516	—	—	—	—
	22	~~Air Gauge Fitting~~ AIR RES. UNION STUD NUT (IN RES END) OR	3	E-67612-H. 632-D-516	O.H. STEEL	F-993 632-D-516	—	—	—	—
	23	" " " ~~Nut~~ " SWIVEL (") OR	1	F-79366-A. 632-B-543	O.H STEEL	F-1333 632-B-543	—	—	—	—
	24	" " " ~~Swivel~~ " STUD. (" " cancell→ ~~2~~	~~1~~	~~632-A-512~~	" "	~~632-A-512~~	—	—	—	—
	25	AIR RESERVOIR-STUD	1	632-C-516	O.H-STEEL	632-C-516	—	—	—	—
	26	Air ~~Pump Oil~~ RESERVOIR Fitting OR	1	E-79951-A 632-A-542	CAST. ORD. IN P.D	—	—	—	—	X-17795
	27	" " " " ~~Nut~~ SLEEVE OR	1	632-B-542	" " "	—	—	—	—	X-17796
	28	" " " " ~~Swivel~~ " NUT OR	1	632-C-542	O.H. STEEL OR BAR STEEL	632-C-542	—	—	—	—
	29	" " Elbow								
	30	~~Angle Valve Nut~~ AIR RESERVOIR UNION ASSEMBLY.	—	PRR. PT # F-77482-B	1" - PIPE, 1¼ ", 1½ "	—	—	—	—	—
	31	~~" " " Swivel~~								
	32	AIR BRAKE UNION STUD	3	WABCO. PT # 67001	ORD. IN P.D	—	—	—	—	—
	33	~~Angle Valve Nut~~ " " " " CONN	1	" " #67247	" "	—	—	—	—	—
	34	" " ~~Swivel~~ " " " " CONN	2	" " #67003	" "	—	—	—	—	—
	35	AIR PUMP GOVERNOR UNION STUD	1	632-C-837	O.H. STEEL	—	—	—	—	—
	36	~~Air Pan Valve Nut~~ " " " NUT	1	632-B-835	—	—	—	—	COLD DRAWN BAR STOCK BRASS	—
	37	" " " ~~Swivel~~ " " " SWIVEL COLLAR	1	632-B-548	—	—	—	—	STICK BRASS	—
	38	AIR PUMP. GOVERNOR UNION FITTING.	1	632-B-838	—	—	—	—	COLD. DRAWN BAR STOCK	—
	39	~~Bell Ringer Fitting~~ " " " NUT	1	632-B-835	—	—	—	—	" "	—
	40	" " " ~~Nut~~ " " " SWIVEL	1	632-B-548	—	—	—	—	STICK BRASS	—
	41	" " " ~~Swivel~~ " " " RING	1	632-B-834	—	—	—	—	" "	—
	42									
	43	AIR PUMP OIL LINE UNION STUD ~~Booster Turret Valve Elbow~~	2	F-88145-A 632-F-837	O.H. STEEL	—	—	—	—	—
	44	" " " " NUT	2	F-85045-C 632-C-835	—	—	—	—	HEX. BAR STOCK	—
	45	" " " " SWIVEL COLLAR	2	F-85043-B 632-C-548	—	—	—	—	STICK BRASS	—
	46	Blower Fitting	1	D-68835-A 633-A-22	FURNISH CHAIN	X-13277 63-789	—	—	—	—
	47	" " Cap VALVE	1	" "	STICK BRASS	—	—	—	—	—
	48	" " ~~Nut~~ WASHER	1	" "	" "	—	—	—	—	—
	49	" " Nut	1	" "	—	—	—	—	X-5850 63-790	FORMULA #2
	50	" " "	1	" "	BAR STEEL	—	—	—	—	—
	51	" " Sleeve	1	" "	—	—	—	—	X-5851 63-791A	FORMULA #2
	52	" " "	—							
	53	" " Washer	—							
	54	" " Handle	1	E-31207-B. 632-A-510	CAST. ORD IN P.D	—	—	—	63-1032 Brass on 1117	~~X-5865~~ Mall for future
	55	SIGNAL CHECK & STRAINER FITTING ~~Valve Nut~~	2	632-F-837	O.H. STEEL	—	—	—	—	—
	56	" " ~~Swivel~~ " " SWIVEL COLLAR	2	632-C-548	—	—	—	—	STICK COLD DRAWN BAR STOCK	—
	57	" ~~Elbow~~ " " " " NUT	2	632-C-835	—	—	—	—	COLD. DRAWN BAR STOCK	—
	58	AIR PUMP OIL PIPE CONNECTION AT JACKET. NUT ~~42~~ ~~Blow-off Cock Nut~~	42	632-C-835	—	—	—	—	STICK BRASS COLD DRAWN BAR STOCK	—
	59	" " " ~~Swivel~~ " " " SWIVEL COLLAR	42	632-C-548	—	—	—	—	—	—
	60	" " " " " " UNION SWIVEL	42	632-C-838	—	—	—	—	—	—
	61	" " " " " " CENTER RING	42	632-C-834	—	—	—	—	STICK BRASS	—

(Group 63 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—PIPE FITTINGS (Cont.)								
D	1	Coal Sprinkler Fitting	1	F-27633-C 643-A-73	—	—	—	—	#10337 STICK—FORMULA #2	
D	2	" " " ~~Nut~~ FERRULE	1	F-54142-A 643-B-73	COPPER ORD. IN P.D	—	—	—	—	—
D	3	" " " ~~Swivel~~ ARRG'T	1-SET	E-77553-C 643-C-73	—	—	—	—	—	—
D	4	" " " ~~Nozzle~~ HOSE	1	" "	ORD. IN P.D	—	—	—	—	—
D	5	" " " Hose RECEPTACLE.	1	F-89916-A 632-A-836	1" EX. STRONG 1/4 W.I. PIPE	—	—	—	—	—
D	6	" " " " " FLANGE	1	" "	O.H. STEEL	—	—	—	—	—
	7	Cyl. Oil Pipe Fitting								
	8	" " " " Nut								
	9	" " " " "								
	10	" " " " Swivel								
	11	" " " " "								
	12	" " " " Tee								
	13	" " " " " Nut								
D	14	GAUGE COCK. DRIP FITTING " " " Swivel	3	632-C-837	O.H STEEL	—	—	—	—	—
D	15	" " " ~~Bracket~~ " " NUT	3	632-B-835	—	—	—	—	COLD DRAWN BAR STOCK	—
D	16	" " " " SWIVEL COLLAR	3	632-B-548	—	—	—	—	STICK	—
D	17	~~Drip Valve Nut~~ LUBRICATOR STEAM SUPPLY. UNION STUD	1	632-C-837	O.H. STEEL	—	—	—	—	—
D	18	" " ~~Swivel~~ " " " HEX NUT	1	632-B-835	—	—	—	—	HEX. BAR STOCK. COLD DRAWN	—
D	19	" " " " SWIVEL COLLAR	1	632-B-548	—	—	—	—	STICK BRASS	—
D	20	LUBRICATON STEAM SUPPLY ~~Dynamo Valve Nut~~ CON. AT. JACKET. NUT	3 ~~2~~	632-B-835	—	—	—	—	COLD DRAWN BAR STOCK	—
D	21	" " ~~Swivel~~ " " " " SWIVEL COLLAR	3 ~~2~~	632-B-548	—	—	—	—	STICK. BRASS	—
D	22	" " " " " " UNION SWIVEL	3 ~~2~~	632-B-838	—	—	—	—	COLD. DRAWN BAR STOCK	—
D	23	~~Food Cock Nut~~ " " " " CENTER RING	3 ~~2~~	632-B-834	—	—	—	—	STICK BRASS	—
D	24	SANDER ~~Valve~~ PIPE FITTING UNION STUD.	~~2~~	632-C-837	O.H. STEEL	—	—	—	—	—
D	25	" " " " " HEX. NUT.	~~2~~	632-B-835	—	—	—	—	HEX. BAR STOCK. BRASS	—
D	26	~~Inj Starting Valve Nut~~ " " SWIVEL COLLAR	~~2~~	632-B-548	—	—	—	—	STICK BRASS	—
D	27	" " " ~~Swivel~~ " UNION STUD	~~2~~	632-K-837	O.H. STEEL	—	—	—	—	—
D	28	" " " " " HEX. NUT	~~2~~	632-D-835	—	—	—	—	HEX. BAR. STOCK. BRASS	—
D	29	~~Lubricator Valve Nut~~ " " SWIVEL COLLAR	~~2~~	632-D-548	—	—	—	—	STICK BRASS	—
D	30	INJ. DELIVERY ~~Swivel~~ PIPE SWIVEL COLLAR	1	632-H-536	O.H. STEEL	—	—	—	—	—
D	31	INJECTOR. DELIVERY PIPE UNION SWIVEL	1	F-74732-D 632-H-844	—	—	—	—	X-17586 63-1025. FORMULA #1	—
D	32	~~Oil Cock Nut~~ " " UNION CENTER RING.	1	F-83439-A 632-H-841	—	—	—	—	X-17550 63-1024 " #1	—
D	33	~~Nut~~ " ~~Swivel~~ " "	1	F-85304-A 632-H-537	F-1329 BAR. STEEL.	—	—	—	—	—
D	34	AIR PUMP LUBRICATOR PIPE FITTING STUD	4	632-A-837	O.H. STEEL	—	—	—	—	—
D	35	~~St. Gauge Cock Nut~~ " " " NUT	4	632-A-835	—	—	—	—	—	—
D	36	" " " ~~Swivel~~ " " SWIVEL COLLAR	4	632-A-548	—	—	—	—	—	—
D	37	INJECTOR DELIVERY PIPE UNION STUD	1	F-87100-B 632-C-846	(AT. CHECK ON BACKHEAD)	—	—	—	COLD DRAWN HEX. BAR STOCK	—
D	38	~~Sander Valve Nut~~ " " " SWIVEL COLLAR	1	F-84230-B. 632-H-536	(" ") O.H. STEEL	—	—	—	STICK	—
D	39	" " " ~~Swivel~~ " " SPANNER NUT	1	F-85304-A. 632-H-537	BAR. STEEL, F-1329	—	—	—	X-17600 63-1026 FORMULA #1	—
D	40	MAIN RESERVOIR GAUGE FITTING	1	E-85048-D 632-D-849	—	—	—	—	—	—
D	41	" ~~Water Gauge Valve Nut~~ " " NUT	1	F-85045-C 632-A-835	—	—	—	—	COLD. DRAWN BAR STOCK	—
D	42	" " " " ~~Swivel~~ " " SWIVEL COLLAR	1	F-85043-C 632-A-548	—	—	—	—	" "	—
D	43	FEED WATER PRESSURE GAUGE FITTING	1	E-85048-D 632-A-849	—	—	—	—	STICK	—
D	44	" " " " " NUT	1	F85045-C 632-A-835	—	—	—	—	COLD DRAWN BAR STOCK	—
D	45	~~Check Pipe Union~~ " " " SWIVEL COLLAR	1	F-85043-C 632-A-548	—	—	—	—	" "	—
D	46	" " " Nut							STICK	—
X	47	STEAM GAUGE FITTING	1	E-85048-D 632-B-849	—	—	—	—	—	—
D	48	" " " NUT	1	F-85045-C 632-A-835	—	—	—	—	COLD. DRAWN BAR STOCK	—
D	49	~~Feed~~ Pipe Union " " SWIVEL COLLAR	1	F-85043C 632-A-548	—	—	—	—	" "	—
D	50	STEAM HEAT GAUGE FITTING	1	E-85048-D 632-C-849	—	—	—	—	STICK	—
D	51	" " ~~Swivel~~ " " NUT	1	F-85045-C 632-A-835	—	—	—	—	COLD. DRAWN BAR STOCK	—
D	52	" " " " SWIVEL COLLAR	1	F-85043-C 632-A-548	—	—	—	—	" "	—
D	53	AIR BRAKE ~~Inj. Steam Pipe Union~~ CYL. GAUGE FITTING	1	E-85048-D 632-C-849	—	—	—	—	STICK	—
D	54	" " " " ~~Nut~~ " " NUT	1	F-85045-C 632-A-835	—	—	—	—	COLD DRAWN BAR STOCK	—
D	55	" " " " ~~Swivel~~ " " SWIVEL COLLAR	1	F-85043-C 632-A-548	—	—	—	—	" "	—
D	56	TRAIN LINE GAUGE FITTING	1	E-85048-D 632-C-849	—	—	—	—	STICK	—
D	57	~~Oil Pipe Union~~ " " " NUT	1	F-85045-C 632-A-835	—	—	—	—	COLD DRAWN BAR STOCK	—
D	58	" " " ~~Nut~~ " " SWIVEL COLLAR	1	F-85043-C 632-A-548	—	—	—	—	" "	—
D	59	EQUALIZING ~~Swivel~~ RESERVOIR GAUGE FITTING	1	E-85048-D 632-D-849	—	—	—	—	STICK	—
D	60	~~Manifold and Bracket~~ " " " NUT	1	F-85045-C 632-A-835	—	—	—	—	COLD DRAWN BAR STOCK	—
D	61	" " " " SWIVEL COLLAR	1	F-85043-C 632-A-548	—	—	—	—	" "	—
									STICK	—

(Group 63 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—Pipe Fittings (Cont.)								
	1	FEED PUMP OIL LINE CON. AT JACKET. HEX. ~~Pipe Union~~ NUT.	2	632-A-835					COLD. DRAWN BAR STOCK	
	2	" " ~~Nut~~ " " " " " UNION SWIVEL	2	632-A-838					" "	
	3	" " ~~Swivel~~ " " " " " SWIVEL COLLAR.	2	632-A-548					STICK	
	4	" ~~Pads~~ " " " " " CENTER RING	2	632-A-834					" "	
	5	STOKER OIL PIPE UNION HEX NUT	1	632-C-835					COLD DRAWN BAR STOCK	
	6	" " " " " " SWIVEL COLLAR	1	632-C-548					STICK BRASS	
	7	" " " " " " STUD	1	632-F-837	O.H. STEEL					
	8	INSULATION FOR STEAM PIPES	—	P.R.R. PT. E-89606-A.		UNARCO. INSUTAPE. ORD IN P.O				
	9	" " " " METHOD OF APPLICATION.	"	" #E-89607-A						
	10	STEAM HEAT GAUGE FITTING.	1	632-A-837	O.H. STEEL					
	11	" ~~Flanges~~ " " " NUT	1	632-A-835					COLD. DRAWN BAR STOCK	
	12	" " " " " " SWIVEL COLLAR	1	632-A-548					STICK BRASS	
	13	" "								
	14	FEED WATER GAUGE LINE AT PUMP UNION STUD	1	632-C-837	O.H. STEEL					
	15	" " " " " " " HEX NUT	1	632-B-835					HEX. BAR STOCK COLD. DRAWN.	
	16	" " " " " " " SWIVEL COLLAR	1	632-B-548					STICK.	
	17	" "								
	18	FEED WATER HEATER GAUGE LINE UNION STUD	2	632-C-837	O.H. STEEL					
	19	" " " " " " HEX NUT	2	632-B-835					HEX. BAR. STOCK COLD. DRAWN.	
	20	" " " " " " SWIVEL COLLAR	2	632-B-548					STICK	
	21	" "								
	22									
	23	STEAM HEAT REGULATOR BRACKET	1	F-89863-A 632-B-514		632-B-514				
	24	STEAM HEAT REGULATOR CONNECTIONS —		LESLIE AK P.R.R. PT. E-54385-B	ORD. IN P.D					
	25									
	26									
	27	PIPE SPLIT COLLAR (4 ~~2~~-HALVES)		D-87058-B	O.H. STEEL					
	28	" " " (2-HALVES)		632-A-848	ORD. IN P.D					
	29	" " " (2-HALVES)		632-B-848	" "					
	30			632-C-848	" "					
	31	FEED WATER BOILER CHECK ELBOW	1	E-85770-A 633-A-31					X-18433 63-1016	FORMULA #1
	32	" " " " NUT	1	F-85304-A 632-J-537	BAR. STOCK STEEL					
	33	" " " " SWIVEL COLLAR	1	632-J-536	O.H. STEEL					
	34	" " " " BALL CENTER RING	1	632-J-538					X-17569 63-1021	
	35									
	36	FEED WATER DELIVERY PIPE ELBOW	1	E-89897-A 552-A-343					X-19030 55-394	FORMULA #1
	37	" " " " NUT	1	632-J-537	BAR. STOCK STEEL					
	38	" " " " SWIVEL COLLAR	1	632-J-536	O.H. STEEL					
	39	" " " " BALL CENTER RING	1	632-J-538					X-17569 63-1021	
	40	WORTHINGTON PUMP CHOKE PLUG CON. FOR 1¼ GLOBE VALVE.	—	PRR. PT-F-91297-A.	FUR. BY W.P. CO. WITH VALVE					
	41									
	42	FEED WATER HEATER CLAMP. (AT SMOKE BOX)	2	F-30210-B 632-A-832			X-3624 63-1018			
	43	" " " " CAP (" ")	2	" " "			X-3621 63-1019			
	44									
	45	WATER COLUMN DRAIN PIPE CLAMP.	1	D-89925-A. 632-A-831		63-A-266				
	46	" " " " " CAP	1	" "		63-A-267				
	47	WATER COLUMN DRAIN COCK ELBOW	1	F-83925-B 632-A-829					X-18262 63-1017	FORMULA #1
	48									
	49									
	50	INJECTOR STEAM PIPE CLAMP	1	F-13841-C 632-A-533			X-7194 63-806			
	51	" " " " CAP	1	" " "			X-7418 63-805			
	52	Pipe Clamp POWER REVERSE (OIL CUP LINE)	1	F-85689-F 632-A-528			X-16870 63-799			
	53	" " CAP " " " (" ")	1	" "			X-16871 63-800			
	54	PIPE CLAMP. (AIR PUMP STEAM LINE)	1	F-85689-F 632-C-528	See Note:-		X-20240 63-1008			
	55	" " CAP (" " " ")	1	" "			X-20406 63-1009			
	56	" " (FEED PUMP STEAM SUPPLY)	1	F-85689-F 632-C-528			X-20240 63-1008			
	57	" " CAP (" " " ")	1	" "			X-20406 63-1009			
	58	" " (SAND PIPES)	4	F-85689-F 632-~~B~~C-528			~~X-14687~~ X-20240 63-~~804~~1008			
	59	" " CAP (" ")	4	" "			~~X-14688~~ X-20406 63-~~803~~1009			
	60	" " (FEED PUMP STEAM & THAW OUT LINE. AHEAD OF CAB)	2	F-85689-F. 632-D-528			X-18457 63-1010			
	61	" " CAP. (" " ")	2	" "			X-18458 63-1011			

Note for future make Bracket 1" Higher as pipe was Too close to Lagging. ON 1167. Bab

FW. HEATER STEAM SUPPLY PIPE. THRU. FRONT OF CAB.
STEAM HEAT & WATER DELIVERY PIPE. L.H. SIDE OF CAB.
INJECTOR STEAM SUPPLY PIPE AT. RUN. BOARD.

(Group 63 Continued)

— AIR BRAKE PIPE CLAMPS —

GROUP 63—Pipe Fittings (Cont.)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
	1	AIR BRAKE PIPE CLAMP.	5	D-90619-A 632-A-525	DETAIL # 6	63-A-178				
	2	" " " " CAP.	5	" "		63-A-179				
	3	" " " "	1	632-B-525	DETAIL # 8	63-A-177				
	4	" " " " CAP.	1	" "		63-A-176				
	5	" " " "	2	632-B-523	DETAIL # 9	63-A-169				
	6	" " " " CAP	2	" "		63-A-168				
	7	" " " "	1	632-C-523	DETAIL # 10	63-A-165				
	8	" " " " CAP	1	" "		63-A-165				
	9	" " " "	2	632-A-577	DETAIL # 7	63-A-201				
	10	" " " " CAP	2	" "		63-A-170				
	11	" " " CLAMP.	1	~~632-C-524~~ P.R.R. RT. F-91316-A	DETAIL # 5	~~632-C-524~~ PRR PT. F-91316-A.	MAKE NEW Brackets.			
	12	" " " CLAMP	4	632-D-526	DETAIL # 4	63-A-181				
	13	" " " " CAP	4	" "		63-A-182				
	14	" " " "	1	632-E-526	DETAIL # 11	63-A-183				
	15	" " " " CAP	1	" "		63-A-183				
	16	" " " CLAMP	2	632-A-851	DETAIL # 19A	632-A-851				
	17	" " " "	1	632-B-826	DETAIL # 22	632-B-826				
	18	" " " "	2	632-C-826	DETAIL # 23	632-C-826				
	19	" " " "	1	632-D-826	Detail # 20	63-A-273				
	20	" " " " CAP	1	" "		63-A-274				
	21	" " " CLAMP CAP	1	632-B-851	Detail # 15	63-A-283				
	22	" " "								
	23	" " " CLAMP	1	632-A-827	DETAIL # 21	63-A-272				
	24	" " " " CAP	1	" "		63-A-271				
	25	" " " CLAMP	~~1~~	~~632-A-850~~	PLATE. Detail # 24	~~632-A-850~~	Used on Last 11 Emp			
	26	" " " " CAP Not used	~~1~~	" "		~~63-A-282~~	Interlocked with Equipment Box on Train Control. Omitted per Mr Johnson.			
	27	" " " " CAP	~~1~~	" "		~~63-A-281~~				
	28	" " " CLAMP	3	632-A-847	Detail # 12-A-	632-A-847				
	29	" " " " CAP	3	" "		63-A-278				
	30	" " " CLAMP	1	632-B-851	Detail # 15	632-B-851				
	31	" " " CLAMP	1	632-C-847	Detail # 18	632-C-847				
	32	" " " " CAP	1	" "		63-A-277				
	33	" " " CLAMP	6	632-F-526	Detail # 2	632-F-526				
	34	" " " CLAMP	1	632-A-539	Detail # 17	68-A-195				
	35	" " " " CAP	1	" "		63-A-194				
	36	" " " "	1	632-A-850	Detail # 24	63-A-279				
	37	" " " "	1	" "	" "	63-A-280				
	38	TRAIN LINE & SIGNAL LINE PIPE CLAMP	1	F-82770-A 632-A-823	(ON BUMPER)		F-18188 63-1005			
	39	" " " " " " CAP	1	F-80544-B 632-B-518	(" ")		X-13816 63-801			
	40	~~STEAM HEAT LINE PIPE CLAMP~~	~~1~~	~~F-82764-A 632-B-823~~	(" ")		~~X-18186 63-1022~~			
	41	" " " " " " ~~CAP~~	~~1~~	~~F-80547-B 632-B-519~~	(" ")		~~X-13818 63-802~~			
	42	FEED WATER HEATER PIPE CLAMPS.	1	E-89442-B 633-A-30	DETAIL # 2	63-A-249				
	43	" " " " " " CAP	1	" "		63-A-248				
	44	" " " " " " CLAMP	2	633-B-30	DETAIL # 1	63-A-250				
	45	" " " " " " CAP	2	" "		63-A-251				
	46	" " " " CLAMP	1	633-C-30	Detail # 6	63-A-252				
	47	" " " " " " U-BOLT	1	" "		63-A-253				
	48	" " " " CLAMP	4	633-D-30	Detail # 3	63-A-255				
	49	" " " " " " CAP	4	" "		63-A-254				
	50	" " " " CLAMP	1	633-E-30	Detail # 5	63-A-256				
	51	" " " " " " CAP	1	" "		63-A-257				
	52	" " " " CLAMP	1	633-F-30	Detail # 7	63-A-264				
	53	" " " " " " CAP	1	" "		63-A-263				
	54	ASH PAN SPRINKLER HOSE.	2	PRR. PT ~~B~~ C ORD. IN P.D D-88414-~~A~~.						
	55	" " " " BRACKET	4	" " "	4	63-A-259				
	56	" " " " "	2	" " "	4	63-A-258				
	57	" " " " "	2	" " "	4	63-A-247 not used for future see D88414-C				
	58	" " " " CLAMPS	4	PRR. PT # E-87815-~~A~~ B ORD. IN P.D						
	59	"								
	60	AIR PUMP DRAIN PIPE CLAMP	~~4~~	~~632-D-526~~		~~63-A-181~~	Not Reqd			
	61	" " " " " CAP.	~~4~~	~~632-D-526~~		~~63-A-182~~	Per J Blunstein			

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 64—Piping Arrangements								
	1	Engine Piping Arrangement, ~~B.S.~~ (FEED WATER)	—	P.R.R. PT #C-89450-~~B~~ C D		—	—	—	—	—
	2	" " " ~~L.S.~~ (AIR BRAKE)	—	PRR PT #C-89745-~~B~~ C D E		—	—	—	—	—
	3	" " " ~~Sections~~ BLOWER & STOKER	—	P.R.R. PT #C-90620-A B C ~~C-89728-D~~		—	—	—	—	—
	4	Piping Arrangement Engine & Tender	—	P.R.R. PT #C-87840-~~A~~ B C D		—	—	—	—	—
	5	Brake Governor Piping	—							
	6	Blower Piping	1-SET	D-84610-G 643-A-93 PRR. PT #		—	—	—	—	—
	7	~~Blower~~ ASH PAN PIPING ARR'GT.	1 SET.	D-88414-~~A~~ C.		—	—	—	—	—
	8	Cylinder Cock Piping	—							
	9	Dead Engine Fixture Piping	—							
	10	Feed Water Heater Piping	—							
	11	~~Flange Oiler~~ PIPING BELOW BRAKE VALVES.	—	F-91608-A		—	—	—	—	—
	12	~~Front End Brake~~ METHOD OF CLOSING OPENINGS AROUND PIPES IN CAB.	—	F-91607-A. 1/8" PLATE		—	—	—	—	—
	13	Governor Drain "	—							
	14	Journal Cooling "	—							
	15	~~Oil Heater~~ AIR, SIGNAL, & STEAM PIPE ON BUMPER ARR'G'T.	1-SET	642-A-178		—	—	—	—	—
	16	Power Reverse "	—							
	17	Sander Piping	—	PRR. PT D-89827-A		—	—	—	—	—
	18	Steam Gauge Piping	—							
	19	" Heat "	—							
	20	Stoker "	—							
	21	Smoke Consumer "	—							
	22	Water Gauge "	—							
	23	DRAIN PIPING FOR BRIDGE PIPE HEADER	—	E-81025-A		—	—	—	—	—
	24	TRAIN CONTROL PIPING ARR'GT	—	P.R.R. PT D-82720-~~J~~ K		—	—	—	—	—
	25	TRAIN CONTROL PIPING ARR'GT	—	P.R.R. PT. D-82018-R		—	—	—	—	—
	26	AIR PUMP STEAM PIPES ARR'G'T.	—	P.R.R. PT D-89526-A ~~B~~ D		—	—	—	—	—
	27	" " " " CLAMPS	1	" " " "		64-A-32	—	—	—	—
	28	" " " " "	2	" " " "		64-A-33	—	—	—	—
	29	AIR BRAKE PIPING DIAGRAM.	—	P.R.R. PT #C-85583-D		—	—	—	—	—
	30	AIR PUMP STEAM PIPE CLAMP.	2	P.R.R. PT # D-89526-D		64-A-42	—	—	—	—
	31	METALLIC CONNECTION SUPPORT	1	642-A-179	PLATE, MAT. ORD. IN P.D	—	—	—	—	—
	32	" " "	2	" "		64-A-41	—	—	—	—
	33	TRAIN CONTROL PIPING ARR'GT	—	P.R.R. PT #D-82018-T		—	—	—	—	—
	34	METHOD OF APPLYING PISTON RINGS	—	PRR. PT D-73758-F		—	—	—	—	—
	35	**GROUP 65—PISTON & ROD**								
	36	Piston	2	D-77698-E 653-B-54	ROLLED STEEL ORD. IN P.D	—	—	—	—	—
	37	" Follower	—							
	38	" Bull Ring	—							
	39	" ~~Ex~~ L Ring	2-SET	D-89204-A 653-B-54	ORD. IN P.D.	—	—	—	—	—
	40	" ~~Snap~~ L Ring	2-SET	" "	" "					
	41	" Plug	—							
	42	" Rod (HEAT TREATED)	2	D-78053-J 653-B-55	ORD. IN P.D ROUGH TURNED	—	—	—	—	—
	43	" " ~~Extension~~ PLUGS	2	" "	STEEL	—	—	—	—	—
	44	" " " ~~Guide~~ NUTS.	2	" "	ORD. IN P.D. STEEL 6 7" HEX. ACROSS FLATS X 2 5/16" THICK FIN. SIZES	—	—	—	—	—
	45	" " " Cover	—							
	46	" " Slide Back	—							
	47	" Spring	—							
	48	PISTON ROD MARKING	1-SET	PRR PT # D-75490-~~A~~ D.		—	—	—	—	—
	49									
	50									
	51	Piston Rod Packing	2-SET.	P.R.R. PT # D-88496-B	ORD. IN P.D	—	—	—	—	—
	52	" " " Gland								
	53	" " " Babbit Ring								
	54	" " " " "								
	55	" " " Split Ring								
	56	" " " Spring								
	57	" " " " Case								
	58	" " " Swab Cup								
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 66—PLUGS								
	1	Plugs								
	2	Arch Tube Plugs CAPS ✓	10 ✓	E-86965E ✓	ORD. IN P.D.	—	—	—	—	—
	3	" " " SLEEVES. ✓	10 ✓	" ✓	STEEL.	—	—	—	—	—
	4	Cylinder Bushing Plug	4 ✓	F-76955-E ✓ 662-A-100 ✓	—	—	X-12065 ✓ 66-229 ✓	—	—	—
	5	~~Exc. Strap Plug~~ VALVE CHAMBER BUSHING PLUG	4 ✓	" " ✓	—	—	X-12065 ✓ 66-229 ✓	—	—	—
	6	~~Filling~~ SURFACE COCK PLUG	1 ✓	F-72174C ✓ 662-A-144 ✓	—	—	—	—	X-555 ✓ 66-269 FORMULA #1	✓
	7	Fusible "	—							
	8	Indicator "	4 ✓	F-41649-D ✓ 662-A-119 ✓	—	—	—	—	X-12806	
	9	Peep Hole "	4 ✓	P.RR.PT ✓ F-89212-A ✓	ORD. IN. P.D ✓ PAT# X-510. PRIME PLUG	✓ ✓	—	—	STICK - FORMULA #1	—
	10	~~Mud Drum~~ WASHOUT HAND HOLE RING. ✓	2	E-89739A ✓	ORD. IN P.D. #F-1400	—	—	—	—	—
	11	~~Smoke Box~~ " " CLAMP. ✓	2	" ✓	ORD. IN P.D. #F-1178	—	—	—	—	—
	12	~~Test~~ " " " RING. ✓	2	E-83316G. ✓	ORD. IN P.D #F-1400	—	—	—	—	—
	13	~~Vent~~ " " " CLAMP. ✓	2	" ✓	ORD. IN P.D. #F-59	—	—	—	—	—
	14	" "								
	15	" — Flange (1ST COURSE) ✓	1	D-6675 1M ✓ 663A1	—	—	✓ X-11921 66-235 ✓	—	—	—
	16	" — " (2ND. ") ✓	1	D-6675 1M ✓ 663B1	—	~~66-235~~	X-11921 ✓ 66-235 ✓	—	—	—
	17	Washout — " CAPS. ✓	2	D-6675 1M. ✓ 663A1	—	—	X-20900 66-234 ✓	—	—	—
	18	" PLUGS. SUPERSEDED BY F-93646-E ✓	8	F-89212A. ✓	"PRIME" ORD. IN P.D	—	—	—	—	—
	19	Hand Hole FLANGES. EPD 6/24/42 ✓	8	E-86129B 662A103 ✓	—	—	—	—	X-5491	—
	20	" " "	2	E-86129B 662B103 ✓	—	—	—	—	66-232 X	—
	21	~~Pyrometer Plug~~ " " CAPS.	10	E-86156C ✓	DROP FORGED ORD. IN P.D.	—	—	—	X-5993 66-233 X	—
	22	" " PLATE (ONLY) ✓	4	E-89739E ✓	" " "	—	—	—	—	—
	23	" " STUD NUT (ONLY.) ✓	4	" ✓	—	—	—	—	—	—
	24									
	25	**GROUP 68—REVERSE LEVER**								
	26	Reverse Lever								
	27	" " Handle								
	28	" " Latch								
	29	" " " Guide								
	30	" " " Rod								
	31	" " Quadrant								
	32	" " " Support								
	33	" " " Block								
	34	" " Arm								
	35	" " Fulcrum								
	36	" " Foot Rest								
	37	" " Floor Cover								
	38	" " Latch Spring								
	39									
	40	POWER REV. GEAR ARRGT ✓	1-SET ✓	PRR. PT C-78555-D ✓	—	—	—	—	—	—
	41	Power Reverse	1-SET ✓	ALCO-TYPE-G ✓	ORD. IN. P.D. ✓	—	—	—	—	—
	42	" " Cylinder Support	1 ✓	D-83300-B ✓ 683-A-52 ✓	—	—	—	X-17494 68-168 ✓	—	—
	43	" " " " Brace	—							
	44	" " ~~Screw~~ Support (QUADRANT BRACKET)	1 ✓	E-89864-A ✓ 682-A-203	PLATE. MAT ORD. IN P.D	—	—	—	—	—
	45	" " " " Filler Block ✓	4 ✓	" "	1/4"-PLATE X 2"-DIA	—	—	—	—	—
	46	Screw Reverse	—							
	47	POWER REVERSE GEAR RESERVOIR BRACKET (F)	1 ✓	E-85076-A ✓ 682-A-202 ✓	—	—	X-17514 ✓ 68-155 ✓	—	—	—
	48	" " " " " (B)	1 ✓	E-85076-A ✓ 682-B-202 ✓	—	—	X-17514 ✓ 68-155 ✓	—	—	—
	49	" " " RES. STRAP	2 ✓	F-72935-A ✓ 682-A-169 ✓	—	68-A-57 ✓	—	—	—	—
	50	" " " " "	2 ✓	" " ✓	—	68-A-58 ✓	—	—	—	—
	51	LOCATION OF QUADRANT BRACKET & FEED VALVE BRACKET	—	P.RR.PT #E-89864-B ✓	—	—	—	—	—	—
	52									
	53									
	54	**GROUP 69—REVERSE SHAFT**								
	55	Reverse Shaft	1 ✓	D-89296-A ✓ 693-A-43 ✓	FURNISH PINS & NUTS ✓	—	—	✓ X-16760 ✓ 69-517-A	FOR FUTURE.	—
	56	" " Arm RIGHT	1 ✓	E-89291-B ✓ 692-A-310 ✓	FURNISH BUSHINGS ✓	—	—	X-16655 ✓ 69-564 ✓	—	—
	57	" " " LEFT	1 ✓	E-89291-B ✓ 692-A-311 ✓	" "	—	—	X-16654 ✓ 69-565 ✓	—	—
	58	" " "	—							
	59	" " " Counterbalance	—							
	60	" " Bearing (4-HALVES) ✓	2 ✓	D-71553-E ✓ 584-A-6 ✓	—	—	—	—	X-13495 ✓ 69-520 ✓	FORMULA #2
	61	" " " (" ") ✓	2 ✓	" " ✓	—	—	—	—	X-13495 ✓ 69-520 ✓	FORMULA #2

(Group 69 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 69—Reverse Shaft (Cont.)								
	1	Reverse Shaft Bearing Cap	4	F-89950-A 692-A-231				X-9956 69-515		
	2	" " " "	—							
	3	" " Counterbal. Rod	1	F-71989-A 692-A-237	FURNISH NUT & ~~TAPER. PIN.~~	692-A-237				
	4	" " " Spring COMPLETE	1	PRR.PT F-28988-F	ORD. IN P.D					
	5	" " " " Seat	—							
	6	" " " " Washer	1	F-26562-D 692-A-236			X-10408 69-522			
	7	" " " ~~Casing~~ ROD CLEVIS	1	F-44499-E. 692-A-232				X-9159 69-516		
	8	" " " ~~Support~~ ROD PIN	1	F-20551-I. 692-A-238	WROT. IRON	692-A-238				
	9	" " " " "	1	692-B-238	" "	692-B-238				
	10		—							
	11	Reach Rod (GEAR TO REV. SHAFT ARM)	1	F-70540-K 692-A-240	FURNISH BUSHING.	692-A-240				
	12	" " PIN (" " " ")	1	F-70813-A 692-B-240						
	13	" " CAB TO GEAR	1-SET	PRR. PT. C-78555-D	1" EX. HEAVY PIPE					
	14	" " JAWS	1	PRR PT F-81690-A		F-1371 F-81690-A				
	15	" " Jaws	1	PRR PT F-70901-C		F-1107 F-70901-C				
	16	" " " FUR. WITH GEAR	2	P.R.R.PT C-78555-D	ORD. IN. P.D					
	17	" " Guide	1	E-71037-G 692-A-235				X-16689 69-521		
	18	" " " Bracket	1	E-71038-B 692-A-239				X-23035 69-523		
	19	" " ~~Pin~~ " BOLT.	1	692-A-239						
	20	" " " GUIDE BOLT	1	692-A-235						
	21	" " " " WASHER	1	" "	$\frac{1}{2}$" THICK x 2$\frac{1}{4}$" DIA STEEL.	FIN ALL OVER.				
	22									
	23									
	24									
	25									
	26	**GROUP 70—ROCKER AND BOX**								
	27	Rocker								
	28	" Arm								
	29	" Box								
	30	" " Cap								
	31	" Pin								
	32									
	33									
	34									
	35									
	36	**GROUP 71—RUNNING BOARD**								
	37	Running Board FRONT SECTIONS	1-SET	D-90295-A P.R.R. PT. ~~D-89521-B~~	MAT. ORD. IN P.D					
	38	" " CENTER SECTIONS	1-SET	D.R.R. PT D-89520-~~C~~F	" "					
	39	" " BACK SECTIONS	1-SET	P.R.R. PT D-89796-~~A~~B	" "					
	40									
	41	" " Edge	—							
	42	" " "	—							
	43	" " "	—							
	44	" " "	—							
	45	" " "	—							
	46	" " "	—							
	47	" " "	—							
	48	" " "	—							
	49	" " Bracket	1	E-89523-A 712-A-217				X-18936 71-54		
	50	" " "	1	~~E-89525-A~~ E-90625-A. 712-A-~~216~~222			X-18937 71-~~53~~56			
	51	" " "	4	E-85075-B 712-A-150			X-17511 71-42			
	52	" " "	2	E-78656-A 712-A-161			X-17508 71-43			
	53	" " "	2	E-78655-A 712-A-162			X-17507 71-44			
	54	" " " (ON FIRE BOX)	1R/1L	F-78653-A 712-A-154		712-A-154				
	55	" " " (UNDER FRONT OF CAB)	1R/1L	F-89695 712-A-218		712-A-218				
	56	" " SUPPORT (FRONT OF CAB)	1R/1L	712-A-163	MAT. ORD IN. P.D	712-A-163				
	57	" " "								
	58	" " "								
	59	" " Filler Blocks								
	60	" " " "								
	61	" " " "								

(Group 71 Continued)

LED 30-42

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 71—Running Board (Cont.)								
	1	Running Board Angle Supports	—							
	2	" " " "	—							
	3	" " " "	—							
	4	" " " "	—							
	5	" " " "	—							
	6	" " " "	—							
✓	7 ✓	Side Sheet	1 ✓	PRR. PT # D-89754-AC	PLATE. MAT ORD. IN P.D					
✓	8 ✓	" " Angle	1 ✓	" " ✓	" "					
	9									
	10									
	11									
	12									
✓	13 ✓	MAIN ROD MARKING	1-SET ✓	PRR. PT # ✓ D-75490-H.D						
✓	14 ✓	SIDE " "	1-SET ✓	" " ✓	" "					
	15	**GROUP 72—RODS—Main & Side**	—							
✓	16 ✓	Rods—Main	IR/1L ✓	D-88999-B ✓ 723-A-102	FORGING ORD ✓ IN P.D					
	17 ✓	Front Stub	—	D-81507-E " " ✓						
✓	18 ✓	" " ~~Strap~~ BLOCK	2 ✓	E-87749-B 723-D-102 ✓		723-D-102				
✓	19 ✓	" " Key	2 ✓	E-87749-B 723-B-102 ✓		72-A-386				
✓	20 ✓	" " Washer	2 ✓	E-87749-B 723-C-102 ✓		723-C-102				
✓	21 ✓	" " Brass FRONT HALF	2 ✓	E-81200-F 723-A-102 ✓	CAST. ORD. IN P.D			X-18002 ✓ 72-729 ✓	PHOS. BRONZE	
✓	22 ✓	" " " BACK HALF	2 ✓	" " ✓	" " "			X-18002 ✓ 72-729 ✓	" "	
✓	23 ✓	" " SET SCREW	2 ✓	E-80841-E ✓ 723-E-102	ORD. IN P.D.					
✓	24 ✓	Main Stub	— ✓	D-89942-A. 723-A-102 ✓						
✓	25 ✓	" " ~~Strap~~ KEEPER STUD	4 ✓	723-A-102 ✓	O.H. STEEL					
✓	26 ✓	" " ~~Wedge~~ " " LOCK WASHERS.	4 ✓	" " ✓	ORD. IN P.D					
	27	" " Filling	—							
✓	28 ✓	" " Brass	2	D-88997-B ✓ 722-A-294 ✓	CAST. ORD ✓ IN P.D			X-19009 ✓ 72-727 ✓	PHOS. BRONZE	
✓	29 ✓	" " STEEL BUSHING	2 ✓	D-88998-B 722-A-293 ✓	FORGING. STEEL ORD. IN P.D					
	30	" " " Grooves								
	31									
	32									
✓	33 ✓	MOUNTING PRESSURE FOR. BRASSES { FRONT INTER BACK	SIDE ROD - 23½ TONS MIN - 27½ TONS NORMAL 31½ TONS MAX							
✓	34 ✓	" " KNUCKLE PIN BUSHINGS	—	15-TONS ✓ MIN - 18 TONS. NORMAL - 21 TONS MAX						
✓	35 ✓	Rods—Side—Front (HEAT TREATED)	IR/1L ✓	D-89746-A 726-A-46 ✓	FORGINGS. ORD IN P.D					
✓	36 ✓	Front Stub	—	" " ✓						
✓	37 ✓	" " ~~Strap~~ KEEPER STUDS	4 ✓	" " ✓	O. H. STEEL					
✓	38 ✓	" " ~~Key~~ " " LOCK WASHER	4 ✓	" " ✓	ORD. IN P.D					
	39	" " Filling	—							
✓	40 ✓	" " Brass	2 ✓	726-A-46 ✓	CAST. ORD ✓ IN P.D			X-16712 ✓ 72-638	PHOS BRONZE.	
	41									
	42									
✓	43 ✓	Rods—Side—Int.	IR/1L ✓	726-A-46 ✓	FORGINGS. ORD ✓ IN P.D					
✓	44 ✓	Inter. Stub	—	" " ✓						
✓	45 ✓	" " ~~Strap~~ KEEPER STUDS	4 ✓	" "	O. H. STEEL					
✓	46 ✓	" " ~~Key~~ " " LOCK WASHER	4 ✓	" "	ORD. IN. P.D					
✓	47	" " Filling	—							
✓	48 ✓	" " Brass	2 ✓	726-A-46 ✓	CAST. ORD ✓ IN P.D			X-16714 ✓ 72-640.	PHOS. BRONZE	
	49									
	50	Rods—Side—Main	—							
✓	51 ✓	Main Stub	— ✓	726-A-46 ✓						
✓	52 ✓	" " ~~Strap~~ KEEPER STUDS	4 ✓	" " ✓	OH-STEEL ✓					
✓	53 ✓	" " ~~Key~~ " " LOCK WASHER	4 ✓	" "	ORD. IN P.D ✓					
	54	" " Filling	—							
✓	55 ✓	" " Brass	2 ✓	D-88997-B ✓ 722-B-294	CAST. ORD ✓ IN P.D			X-19010 ✓ 72-728	PHOS. BRONZE	
✓	56 ✓	" " BUSHING	2 ✓	D-88998-B 722-B-293 ✓	STEEL. ORD. IN. P. D ✓					
	57									
	58									
	59									
	60									
	61									

(Group 72 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 72—Rods—Main & Side (Cont.)								
	1	Rods—Side—Back	1R/1L	726-A-46	FORGINGS ORD IN P.D					
	2	Back Stub	—	"	"					
	3	" " ~~Strap~~ KEEPER BOLTS	4	"	"	O.H.STEEL				
	4	" " ~~Key~~ " " LOCK WASHERS	4	"	"	ORD. IN P.D				
	5	" " ~~Filling~~								
	6	" " Brass	2	726-A-46	CAST. ORD IN P.D				X-16714 72-640. PHOS. BRONZE	
	7	KNUCKLE PIN DOWELS	4	722-A-214	O.H.STEEL					
	8	Knuckle Pin	4	E-85417-B 722-A-214	MAT. ORD IN. P.D	7 11/32 DIA X 5 5/8 LONG. FIN SIZES				
	9	" " Bushing	4	726-A-46	O.H.STEEL CASEHARDENED					
	10	" " Nut	4	722-A-214		5 3/8" HEX. ACROSS FLATS X 1 7/8" THICK FIN SIZES				
	11	" " COLLAR	4	" "	PLATE-8" DIA X 1/2" THICK FIN SIZES					
	12	Side Rod Grease Grooves	—	726-A-46						
	13	SAND PIPE HANGER ARRGT	—	P.R.R PT E-89790-A						
	14	" " " CLAMP	2	" "		73-B-47				
	15	" " " ARRGT	—	P.R.R.PT E-89791-A						
	16	" " " CLAMP	2	"		73-B-47				
	17	" " " "	2	"		73-B-48				
	18	" " " "	2	"		73-B-49				
	19									
	20									
	21	**GROUP 73—SAND BOX**								
	22	Sand Box—Front	1-SET	D-76006-I 734-B-8	PLATE MAT ORD. IN P.D					
	23	" " —Back								
	24	Sand Box Base—Front	1-SET	734-B-8	PLATE. MAT ORD IN P.D					
	25	" " " —Back								
	26	" " TRAP	2	E-72301-B 732-A-156					X-16770 73-378-A JUNK BRASS	
	27	" " Top								
	28	" " Lid	2	E-88777-B 732-A-153			X-9294 73-411			
	29	" " Valve								
	30	" " ~~Seat~~ RING	2	734-B-8	STEEL	10 5/8 OS DIA X 10 1/4 IS. DIA X 1 1/4" WIDE				
	31	" " Arm								
	32	" " Rod								
	33	" " ~~Shaft~~ TRAP CONNECTION	4	E-72302-B 732-A-155					X-16771 73-410. JUNK BRASS	
	34	" " ~~Lever~~ " " CAP	4	F-87663-A. 732-A-154			X-15812 73-409			
	35	" " Rod Handle								
	36	" " Bracket								
	37	Air Sander	4-TRAPS	GRAHAM WHITE.	ORD. IN. PD. FUR. BY. P.R.R					
	38	SAND BOX SPACER BLOCKS (F)	2	E-70458-K 233-H-61	FURNISH BOLT				X-16794 23-466	
	39	" " " " (B)	2	233-E-61	FURNISH BOLT.				X-16795 23-436	
	40									
	41	SAND PIPE HANGER	1R	E-89793-A 732-A-157					X-19007 73-412	
	42	" " "	1L	" "					X-19008 73-413	
	43	" " "	1R	E-89792-A 732-A-158					X-19005 73-414	
	44	" " "	1L	" "					X-19006 73-415	
	45									
	46									
	47									
	48	**GROUP 75—SMOKE BOX**								
	49	Smoke Box Arrangement	1-SET.	P.R.R. PT # ~~C-89449-A~~ C-90733-A.						
	50	Deflecting Plate	—							
	51	" " Angle	—							
	52	" " Handle	—							
	53	" " Nuts	—							
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

(Group 75 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX (Cont)								
	1	Smoke Box Netting								
	2	" " " Door								
	3	" " " Frame								
	4	" " " " Catch								
	5									
	6									
	7									
	8									
	9									
	10									
	11	Draft Pipe								
	12	" " Hanger								
	13	" " "								
	14	Tee Head Brace								
	15	Table Plate								
	16									
	17									
	18									
	19	Cinder Pocket								
	20	" " Cap								
	21	" " Clamp								
	22	" " Thumb Screw								
	23	" " Chute								
	24	" " " Bracket								
	25	" " Slide								
	26	" " " Guide								
	27	" " Wedge								
	28	~~Cleaning Hole Frame~~ SMOKE BOX CONE BAND.	4	PRR PT#C-90710-A						
	29	SMOKE " BOX CONE BAND PINS	2	PRR PT#C-90710-A.	Detail #10	75-A-246				
	30	" " ~~Ferrule~~ " STUDS	6	" "	Detail # 11					
	31	SMOKE BOX SPARK ARRESTER.	1	P.R.R. PT#C-90710-A.	MAT. ORD. IN P.D #393 DRAFTAC					
	32	" " CONE	1	" "	PLATE. M.O.I P.D					
	33	" " " BAND	1	" "		75-A-242				
	34	" " " "	1	" "		75-A-243				
	35	" " " LOCK	1	" "		75-A-244				
	36	" " " " BRACKET	1R/1L	" "		75-A-245				
	37	Smoke Box Brace & STEP	1R	E-89439-A 753-A-164				X-18924 75-677		
	38	" " " ~~Foot~~ & "	1L	753-A-164				X-18925 75-678		
	39	" " " Pad	—							
	40									
	41	Smoke Box Front	1	{D-74055-G. C-66062-L 754-A-20	PLATE. MAT. ORD. IN P.D					
	42	" " " Door	1	" "	" "					
	43	" " " Liner	—							
	44	" " " Hinges BOTTOM	2	F-79048-A. 752-A-130	CAST. ORD IN. P.D					X-10208
	45	" " " " TOP.	2	" "	" "					75-626
	46	" " " Lugs								X-10209
	47	" " " " PINS	2	" "		320-S-258				75-627
	48	" " " Buttons	2	" "	STEEL TURNED					
	49	" " " Handle	19	F-71993-B 752-A-129			X-9588 75-628			
	50	" " " Clamp	—							
	51	" " " Crosstie	—							
	52									
	53	SMOKE BOX CONE	~~1~~	~~C-85506-A.~~ ~~754-A-34~~	~~MAT. ORD. IN P.D. PLATE~~					
	54	" " " "Z" BAR	~~2~~	" "	" "	75-A-240				
	55	" " " BRACKET	~~2~~	" "	" "	75-A-239				
	56	" " " HANGER	~~3~~	" "		75-A-236				
	57	" " " PIN	~~6~~	" "		75-A-238				
	58	" " " .. KEY	~~6~~	" "		75-A-237				
	59	" " " SPARK ARRESTER	~~1~~	" "	~~DRAFTAC #393~~ MAT. ORD. IN P.D					
	60	" " " HINGE	~~36~~	F-82476-A. 752-A-180	CAST. ORD. IN P.D					X-18158
	61	" " " HINGE	~~36~~	" "	" "					X-18157
	62	" " " " PIN.	~~36~~	" "	O.H. STEEL					

(Group 75 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX (Cont.)								
	1	Smoke Stack	1	D-85209-B 753-A-163	FURNISH BOLTS & SPLT KEYS.		X-18985 75-676			
	2	" " Base	—							
	3	" "	—							
	4	" " Extension	1	753-A-163	PLATE. MAT ORD. IN P.D					
	5	" " ~~T~~" ANGLE	1	"	" MAT. ORD. IN P.D					
	6	" " ~~Cone~~" PLATES	10	"	" 1/4" X 2" X 2" O.H. STEEL PLATE					
	7	" " Spark Whirl	—							
	8	" " Netting	—							
	9	" " Cleaning Hole	—							
	10	" " " " Cap	—	D-90709-A ~~D-85210-A~~			X-19227 ~~X-18154~~			
	11	BLOWER IN BASE OF LIFT PIPE.	1	753-A-~~162~~167	FURNISH PIPE PLUGS & CARRIAGE BOLTS		~~75-679~~ 75-682			
	12	METHOD OF ATTACHING STEEL LINER TO BOX CAVITIES.	—	PRR. PT# F-89828-A						
	13	RETAINING NIB FOR SPRING LEAVES	—	F-86984-A 762-A-194	ORD. IN P.D WITH SPRINGS					
	14	**GROUP 76—SPRINGS**								
	15	Springs								
	16	Driving Spring—Front	2	E-61174-C 762-B-138	ORD. IN P.D					
	17	" " —Int.	2	"	"					
	18	" " —Main	2	"	"					
	19	" " —Back	2	"	"					
	20	" "								
	21	" "								
	22	Engine Truck Spring	2	E-86145-C 762-B-139	ORD. IN P.D					
	23	" " "	—							
	24	Trailer Spring	2	E-59650-D 762-B-137	ORD. IN P.D					
	25	~~Draft~~ " (UNDER PEDESTAL CAP)	4	F-59649-B 762-A-195	"					
	26	Coupler "	—							
	27	Buffer "	—							
	28	Centering "	—							
	29	DRIVING SPRING CLIPS.	16	PRR PT # F-56904-N	ORD. IN P.D					
	30	TRAILER " " " "	4	PRR. PT # E-67733-F	ORD. IN P.D.					
	31	SPRING STAMPING.	—	PRR PT # E-32309-C						
	32	**GROUP 77—SPRING RIGGING**	—							
	33	Spring Rigging	1-SET.	P.RR. PT# C-71729-C F-71730-C					X-16691 77-343	
	34	Driving Box Saddle	8	772-A-193						
	35	" " " ROLLER	8	772-E-195	#2 TOOL STEEL #40	772-E-195				
	36	Equalizer—Front	—							
	37	" —Side	2	772-A-195	MAT. ORD IN P.D	772-A-195				
	38	" ~~Back~~ SIDE	4	772-B-195	" "	772-B-195				
	39	" ~~Cross~~ SIDE. BLOCKS	6	772-A-195	#2-TOOL STEEL. #40. 1 1/2" X 3" X 4" FIN. SIZES					
	40	" Fulcrum—Cylinder	—							
	41	" ROLLER	6	772-D-195	#2-TOOL STEEL #40.	772-D-195				
	42	" "	—							
	43	" " —Trailer	—							
	44	" Link	—							
	45	" Safety Strap	—							
	46	" " "	—							
	47	Spring Fulcrum	—							
	48	" Gib	14	772-H-195	FORGING ORD IN P.D STEEL CASEHARDENED					
	49	" "	4	772-F-195	" "					
	50	" "	—							
	51	" Guide	—	E-71731-E						
	52	" Hanger	4	772-C-195	MAT. ORD IN P.D	772-C-195				
	53	" " (O.H. STEEL ANNEALED)	14	772-A-194	ROUGH FORGING ORD IN P.D					
	54	" " (" " ")	2	772-B-194	" "					
	55	" "	—							
	56	" "	—							
	57	" "	—							
	58	" "	—							
	59	" " Block	—							
	60	" " GIB BEARING BLOCK	2	466-A-150	#2-TOOL STEEL SPEC# 40	1 1/2" X 3" X 7" FIN. SIZES				
	61									

(Group 77 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 77—Spring Rigging (Cont.)								
	1	Spring Hanger Link	—							
	2	" " "	—							
	3	" " "	—							
	4	" " "	—							
	5	" Roller	—							
	6	" Seat	—							
	7	" "	—							
	8	" "	—							
	9									
	10									
	11									
	12	TRAILER TRUCK SPRING HANGER LINK	2	772-A-196	—	772-A-196	—	—	—	—
	13	" " " " "	2	772-B-196	—	772-B-196	—	—	—	—
	14	" " " " "	4	772-D-196	—	772-D-196	—	—	—	—
	15	" " " " GIBS	4	772-C-196	ORD. IN PD FORGED	—	—	—	—	—
	16	" " " " "	4	772-E-196	ORD. IN PD FORGED	—	—	—	—	—
	17	" " " " BOLTS.	4	772-F-196	—	772-F-196	—	—	—	—
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28	STEAM HEAT. STUD FITTING	1	F-88145-A G32-A-837	O.H. STEEL	—	—	—	—	—
	29	STEAM HEAT GAUGE PIPE	1-SET	P.RR.PT# 80738-A	—	—	—	—	—	—
	30	" " " " NUT	2	G32-A-835	—	—	—	—	BRASS. HEX BAR. STOCK	—
	31	" " " " BALL CENTER RING	1	G32-A-843	—	—	—	—	STICK BRASS	—
	32	" " " UNION SWIVEL COLLAR	2	G32-A-548	—	—	—	—	STICK BRASS	—
	33	STEAM GAUGE PIPE	1-SET	P.RR.PT# E-80737-A	—	—	—	—	—	—
	34	" " " NUT	2	G32-A-835	—	—	—	—	BRASS. HEX. BAR. STOCK	—
	35	" " " BALL CENTER RING	1	G32 A-843	—	—	—	—	STICK. BRASS	—
	36	" " " UNION SWIVEL COLLAR	2	G32-A-548	—	—	—	—	STICK BRASS	—
	37									
	38									
	39	**GR. 78—Stm. Gauge, Saf. Val. & Tur.**								
	40	Steam Gauge	1	PURCHASED	ORD. IN P.D	—	—	—	—	—
	41	" Turret (BRIDGE PIPE HEADER)	1	D-72121-G 783-B-47	—	X-16750 78-307	—	—	—	—
	42	" " ~~Valve~~ FLANGE " ")	1	783-B-47	FURNISH GASKET. MAT. ORD. IN P.D.	X-16751 78-308	—	—	—	—
	43	" " " Gland	—							
	44	" " " Neck	—							
	45	" " " Nut	—							
	46	" " " Handle	—							
	47	" " Joint Ring	—							
	48									
	49									
	50									
	51	BRIDGE PIPE FLANGE	1	D-72120-D 783-A-46	FURNISH COPPER GASKET ORD. IN P.D	—	—	X-16749 78-306	—	—
	52	BRIDGE PIPE SUPPORT	IR IL 1	F-71992-A 782-A-147	PLATE MAT. ORD. IN P.D	—	—	—	—	—
	53	BRIDGE PIPE CASING	1-SET	P.R.R.PT# E-89858-A	PLATE. MAT ORD. IN. P.D	—	—	—	—	—
	54	BRIDGE PIPE CASING (FRONT OF CAB)	1-SET	P.R.R. PT# C-89857-A	PLATE. MAT ORD. IN P.D	—	—	—	—	—
	55	" " " LATCH BOLT	4	" "	"	78-A-33	—	—	—	—
	56	" " " " JAW	4	" "	"	78-A-34	—	—	—	—
	57	" " " TIE ROD	1	" "	"	78-A-31	—	—	—	—
	58	" " " LATCH HANDLE	4	" "	"	78-A-32	—	—	—	—
	59	" " " " ANGLE	4	" "	" 1/4" X 2" X 3" ANGLE	—	—	—	—	—
	60									
	61									

(Group 78 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 78—Stm. Gauge, Saf. Val. & Tur. (Ct.)								
	1	Steam Turret Casing	—							
	2	" " " Hinges	—							
	3	" " " Hasp	—							
	4	BRIDGE PIPE & GAUGE COCK ARR'G'T.	1-SET.	PRR. PT # E-60476-B.	(SEE PAGE 14 - ITEM 46)					
	5	BRIDGE PIPE & GAUGE COCK ARR'G'T	1-SET.	PRR PT # D-76536-C						
	6									
	7	Safety Valve	2	PRR PT # D-75423-E	ORD. IN P.D					
	8	" " Extension	—							
	9	" " Turret	—							
	10	" " " Bushing	—							
	11	" " " Casing	—							
	12	" " " " Supports	—							
	13	" " " " "	—							
	14									
	15									
	16	**GROUP 79—STEAM PIPES**								
	17	Steam Pipes	—							
	18	Steam Pipe—Right	—							
	19	" " —Left	—							
	20	JOINT RING (BETWEEN FLANGE & HOT. WATER SUPPLY PIPE	1	D-82394-D 792-B-97			X-297 79-861			
	21	" " " (BET. TOP HOT WATER SUPPLY & BOT. PIPE	1	792-A-97			X-297 79-861			
	22	" " " (HOT. WATER SUPPLY P PIPE & HEATER	1	D-82394-D 792-F-100			X-19037 79-115			
	23	" " " (BET. CROSS OVER PIPE & HEADER)	1 LH	792-B-97			X-297 79-861			
	24	Joint Ring (BETWEEN CYLINDER & HEADER)	2	D-82394-D 792-D-101			X-14605 79-123			
	25	" " (BETWEEN F.W. HEATER EXHAUST & CYLINDER)	2	D-82394-D 792-A-97	BOTTOM		X-297 79-861			
	26	" " (BETWEEN F.W. HEATER EXHAUST PIPE & HEATER)	2	792-B-97	TOP		X-297 79-861			
	27	JOINT RING " (BETWEEN TEE HEAD & HEADER	2	D-82394-D 792-B-101			X-6037 79-123			
	28	" " Tee Head	1	D-70757-A D ~~793-B-67~~	793-A-93		X-18983 79-934			
	29	" ~~" Casing~~ JOINT RING (BET. COLD WATER SUPPLY PIPE & HEATER)	1	D-82394-D ~~792-X-90~~	792-C-119 — Make new Castings. To New Card.		X-4083 79-125			
	30	" " " " (BET. COLD WATER SUPPLY PIPE & CYL.)	1	792-X-90			X-4083 79-125			
	31	" " " ~~Clamp~~ (BET. HOT. WATER PUMP AT FRONT & PIPE	1	792-A-B-97			X-297 79-861			
	32	" " ~~Supports~~	—							
	33	JOINT RING. (BETWEEN CROSS OVER PIPE & HEADER.	1R	D-82394-D 792-A-97			X-297 79-861			
	34	JOINT RING ~~Sleeve~~ (BET. HOT. PUMP & ELBOW	1	792-T-91			79-865			
	35	" " " " U-Bolt	—							
	36	" " Slip Joint Casing	—							
	37	" " " " Sleeve	—							
	38	" " " " Packing Rings	—							
	39	JOINT RING. (AT. FEED WATER HEATER)	1	D-82394-D 792-T-88			X-18441 79-937			
	40	" " (AT. CENT. PUMP)	1	792-S-91			X-14970 79-865			
	41	" " (INJ. CHECK)	1	792-A-119			X-6562 79-936			
	42	" " (AT. CENT. PUMP)	1	792-B-119			X-6055 79-936			
	43	" " (BET. FLANGE & CEN. PUMP ADAPTER	1	792-B-119			X-6055 79-936			
	44	" " (BET. CENT. PUMP & ADAPTER PIPE)	+	~~792-C-88~~ P.R.R. PT #	not Reqd. See #792-B-119 ORD. IN P.D		~~X-178~~ ~~79-864~~			
	45	GROUP 80—STOKER ARRANGMENT	1-SET.	C-79905-K.						
	46									
	47									
	48									
	49	FRONT ELBOW STOKER SUPPORT.	1	E-79856-A 802-A-21	FURNISHED BY. P.R.R. ORD. IN P.D.					
	50									
	51									
	52	STOKER ENGINE BASE & CAB BRACKET. (L.S.)	1	D-79860-H. 803-A-11	FURNISHED BY. P.R.R ORD. IN P.D					
	53									
	54	STOKER FIRING TABLE	1	P.R.R.PT # E-82913-A.	ORD. IN P.D FOR. WITH STOKER					
	55	" PROTECTING GRATE (BOT)	1R/1L	" # E-89953-A	" " "					
	56	" " " (TOP)	1R/1L	" # E-89954-A	" " "					
	57									
	58									
	59									
	60									
	61									

(Group 80 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 80—STOKER (Cont.)								
	1	STOKER REVERSING ROD	1	E-80523-B 803-A-12	—	803-A-12	—	—	—	—
	2	" " "	1	803-B-12	FURNISHED WITH STOKER	—	—	—	—	—
	3	" " SPRING.	1	803-C-12	FURNISHED WITH STOKER	—	—	—	—	—
	4	" " PLATE	1	803-E-12	1/8" PLATE	—	—	—	—	—
	5	" " ANGLE.	1	803-F-12	1/4"X2"X2" ANGLE-1 1/2" LONG	—	—	—	—	—
	6	" " JAW.	1	803-H-12	FURNISHED WITH STOKER	—	—	—	—	—
	7	" " EYE BOLT.	1	803-J-12	—	803-J-12	—	—	—	—
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21	— SUPERHEATER —								
	22	SUPERHEATER ARR'G'T	—	P.R.R.PT # C-89449-A	—	—	—	—	—	—
	23	SUPERHEATER CROSSOVER PIPE.	1	F-85174-A. 812-A-133	MAT. ORD. IN P.D 5" I.D. EX. HEAVY PIPE	—	—	—	—	—
	24	" " " FLANGE	2	F-85173-A. 633-A-29	—	—	—	X-18367 63-1000	—	—
	25	SUPERHEATER HEADER	1R/1L	P.R.R.PT# D-89444-A B C	ORD. IN P.D	—	—	—	—	—
	26	" UNIT ASSEMBLY — R. 1ST	—	P.R.R PT # D-77665-B.	ORD. IN P.D	—	—	—	—	—
	27	" " " L 1ST	—	" " " " "		—	—	—	—	—
	28	" " " R 2ND	—	" #D-77664-B	" "	—	—	—	—	—
	29	" " " L 2ND	—	" " " " "		—	—	—	—	—
	30	" " " R 3RD	—	" #D-77667-B	" "	—	—	—	—	—
	31	" " " L 3RD	—	" " " " "		—	—	—	—	—
	32	" " " R 4TH	—	" #D-77666-B	" "	—	—	—	—	—
	33	" " " L 4TH	—	" " " " "		—	—	—	—	—
	34	" CLAMP BOLT	—	" -D-81383-C.	" "	—	—	—	—	—
	35	" " " NUT	—	" " " " "		—	—	—	—	—
	36	" UNIT CLAMP	—	" E-70878-B	" "	—	—	—	—	—
	37	" " PIPE SUPPORTS	—	" E-81253-C	" "	—	—	—	—	—
	38	" " CLAMP WASHER	—	" F-70859-B	" "	—	—	—	—	—
	39	" INT. HEADER WASHER	—	" F-70857-C	" "	—	—	—	—	—
	40	" UNIT PIPE END	—	" F-90646-A	" "	—	—	—	—	—
	41									
	42									
	43									
	44									
	45									
	46									
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	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 83—TANK, ENGINE								
	1	Tank								
	2	" Material Bill								
	3	" Angle Iron								
	4	" Lifter								
	5	" Block								
	6	" "								
	7	" Wedge								
	8	" "								
	9	Tank Bearer								
	10	" "								
	11	Tank Funnel								
	12	" " Screen								
	13	" " Lid								
	14	" " Hinge								
	15	" " Handle								
	16	Tank Hand Hole								
	17	" " " Dog								
	18									
	19									
	20	Tank Equalizing Pipe	—							
	21	" " " Flange	—							
	22									
D	23	THROTTLE VALVE CRANK PIN	1	912-B-300	FURNISH SPLIT KEYS	—	—	—	—	—
D	24	" " " " WASHER	1	"	" 1/4" THICK x 2" DIA. FIN. SIZES	—	—	—	—	—
D	25	~~Cap~~ Bank THROTTLE VALVE STEM WASHER	1	913-B-82	—	913-B-82	—	—	—	—
D	26	" " ~~Angle~~ " " " "	2	913-C-82	—	913-C-82	—	—	—	—
D	27	" ~~Cone~~ " " " KEY	1	913-D-82	—	913-D-82	—	—	—	—
D	28	" ~~" Latch~~ " " SEAT STUDS	3	913-F-82	—	913-F-82	—	—	—	—
D	29	" ~~" Handle~~ " " PISTON ASSEMBLY. 1-SET		913-E-82 D-68667-G	FURNISH SPLIT KEYS	—	—	—	—	—
D	30	" ~~Rock~~ " " STEM PIN	3	912-A-300	1/4-THICK x 1 3/4" DIA FIN. SIZES	—	—	—	—	—
D	31	" " " PIN WASHER	3	912-A-300		—	—	—	—	—
D	32	METHOD OF OPERATING THROTTLE VALVE	—	PRR. PT F-64879-A		—	—	x-15049	—	—
D	33	THROTTLE VALVE PISTON RINGS.	3	F-68665-C 912-C-308		—	—	91-688	—	—
	34	**GROUP 91—Throttle & Dry Pipe**								
D	35	Throttle Valve Arrangement	1-SET	PRR PT # D-78552-A		—	—	—	—	—
D	36	Throttle Valve	1	E-68660-G 912-A-302		—	—	x-14329 91-684	—	—
D	37	" " Stem	1	D-68668-I 913-A-82		913-A-82	—	—	—	—
D	38	" " ~~" Cage~~ SEAT	1	E-87466-B 912-A-298		—	—	x-13258 91-680	—	—
D	39	" " ~~" Lever~~ OPERATING LINK	1	F-57056-C 912-A-303		—	—	x-14331 91-685	—	—
	40	" " " " Rod	—							
	41	" " " " " Jaw	—							
	42	" " " " Fulcrum	—							
D	43	" " " " ~~Pin~~ BALANCING PISTON	1	E-68659-F 912-A-299		—	—	x-15391 91-681	—	—
D	44	" " Crank	1	F-87353-B 912-C-303		—	—	—	x-14332 91-686	—
D	45	" Pipe	1	C-78553-A. 917A-9		—	—	x-17493 91-679	—	—
	46	" " Ring	—							
	47	" " Yoke	1	E-73549-A		—	—	—	x-8383 91-690	FORMULA #1
D	48	Throttle Stuffing Box	1	912-A-327		—	—	—	x-8384 91-689	" #1
D	49	" " " Gland	1	" "		—	—	—	—	—
D	50	" " " " STUDS.	2	" "		—	—	—	—	—
D	51	" " " ~~Ring~~ PACKING	1-SET.	PRR. PT. F-68971-A	PRR. STYLE #11 ORD IN P.D	—	—	—	—	—
	52	" Shaft	—							
	53	" " Arm	—							
	54	" " "	—							
D	55	" Rod COLD ROLLED STEEL.	1	912-B-483	MAT. ORD IN P.D	—	—	—	—	—
	56	" " Crosshead	—							
D	57	" " Jaw	1	912-D-300	FURNISH TAPER PIN	912-D-300	—	—	—	—
	58	" " Pin	—							
	59	" " Support	—							
D	60	" PIPE SUPPORT PINS	2	912-C-300	FUR. SPLIT KEY	912-C-300	—	—	—	—
	61									

(Group 91 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 91—Throt. & Dry Pipes (Cont.)								
D	1	THROTTLE LEVER WASHER	1	912-D-306	STEEL	—	—	—	—	—
D	2	" " "	1	912-F-306	"	—	—	—	—	—
D	3	" " LATCH ROD.	1	E-69002-F 912-B-309	O.H. STEEL	—	—	—	—	—
D	4	" " BOLT	1	912-E-309	" "	—	—	—	—	—
D	5	" " "	1	912-F-309	" "	—	—	—	—	—
D	6	" " "	1	912-H-309	" "	—	—	—	—	—
D	7	THROTTLE YOKE LINK	2	912-C-482	—	912-C-482	—	—	—	—
P	8	THROTTLE LEVER ARRANGMENT.	1-SET.	D-89807-A 913-A-117	—	—	—	—	—	—
P	9	Throttle Lever	1	912-C-481	—	912-C-481	—	—	—	—
P	10	" " Handle	1	F-50081-C. 912-A-301	CASTING. ORD IN P.D	—	—	—	—	X-434
P	11	" " Latch	1	D-89807-A 912-D-308	CAST. ORD IN P.D	—	—	—	—	X-10926
P	12	" " " Spring	1	912-E-306	BRASS WIRE-.110" THICK	—	—	—	—	—
P	13	" " " Guide	1	E-69002-F 912-A-306	—	912-A-306	—	—	—	—
D	14	" " " Rod	1	D-89807-A. 912-A-483	—	912-A-483	—	—	—	—
P	15	" " Quadrant	1	D-89807-A. 912-A-481	—	912-A-481	—	—	—	—
D	16	" " ~~Support~~ WASHER	1	912-B-306	STEEL	—	—	—	—	—
D	17	" " Fulcrum BRACKET	1	D-89806-A 913-A-116	—	—	—	X-19015 91-780	—	—
D	18	" " ~~Stud~~ " SHAFT	1	D-89807-A. 912-B-481	—	—	—	X-19016 91-781	—	—
D	19	" " ~~Link~~ " " WASHER.	27	912-C-483	STEEL	—	—	—	—	—
D	20	" " SUPPORT	1	D-89807-A 912-A-482	O.H. STEEL	912-A-482	—	—	—	—
D	21	" " YOKE WASHER	1	912-B-482	O.H. STEEL	912-B-482	—	—	—	—
D	22	" " " " BOLT	1	912-D-482	O.H. STEEL	—	—	—	—	—
D	23	Dry Pipe	1	E-46690-H 912-A-296	—	—	X-12927 91-678	—	—	—
	24	" " Elbow								
	25	" " Front End								
D	26	" " HOOK BOLT	2	F-84947-C 912-A-308	FURNISH # 14 KEYS	912-A-308	—	—	—	—
	27	" " Sleeve								
D	28	" " Support	1	D-6867/N	PIECE #15	D-6867/N	—	—	—	—
D	29	" " ~~Yoke~~ " CLAMP	1	"	" #15	"	—	—	—	—
P	30	" " ~~Support~~ SUPPORT	1	"	" #16	"	—	—	—	—
D	31	" " ~~Clamp~~ " U-BOLT	1	"	" #16	"	—	—	—	—
P	32	" " Joint Ring (BETWEEN DRY PIPE & T-HEAD	1	D-82394-D 792-B-112	TO BE THREADED BEFORE BENDING	—	X-12918 79-103	—	—	—
D	33	" " JOINT RING (BETWEEN THROTTLE & DRY PIPE.	1	F-23402-G 792-A-70	—	—	—	—	X-12947 79-862	FORMULA #1
D	34	THROTTLE LEVER BOLT	1	912-J-309	O.H. STEEL	—	—	—	—	—
P	35	" " YOKE	1	P.R.R. PT F-68387-B	CAST. ORD IN PD	—	—	—	—	X-15903
P	36	" ROD SUPPORT	1	F.46967 L	—	F.46967 L	—	—	—	—
D	37	DRY PIPE SUPPORT BAR.	1	D-6867/N	PIECE #16	D-6867/N	—	—	—	—
P	38	" " " PINS.	2	"	" #17	"	—	—	—	—
P	39	THROTTLE SUPPORT	1	D-6867/N	GROUP #18	"	—	—	—	—
	40									
	41									
	42									
	43									
P	44	**GROUP 92—TOOLS** EQUPMENT	1-SET.	PURCHASED	ORD. IN P.D FURNISHED BY. PENNA RR.	—	—	—	—	—
	45	Broom								
	46	Coal Pick								
	47	" Scoop								
	48	Crosshead Block								
	49	Chisel—Cape								
	50	" —Flat								
	51	Fire Rake								
	52	Flag—Green								
	53	" —Red								
	54	" —White								
	55	Hard Hammer (Machinists)								
	56	Lantern—White Hand								
	57	" —Red "								
	58	Main Pin Blocks								
	59									
	60									
	61									

(Group 92 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 92—TOOLS (Cont.)								
	1	Oil Can—Long Spout Oiler								
	2	" " —Engine Oil								
	3	" " —Valve "								
	4	" " —Signal "								
	5	" " —Kerosene Oil								
	6	Packing Hook								
	7	" Spoon								
	8	Pinch Bar								
	9	Jackscrews								
	10	Tallow Pot								
	11	Torch								
	12	Torpedoes								
	13	Valve Stem Block								
	14	Waste								
	15	Wrench—Alligator								
	16	" —Monkey								
	17	Wrecking Frogs								
	18									
	19									
	20									
	21									
	22	**GROUP 94—Valves, Distribution**								
D	23	Piston Valve COMPLETE	2	D-67928-~~E~~J		944-~~E~~-1 ~~B~~ D	ORD. IN. P.D	—	—	—	—	—
	24	" " Follower	—									
	25	" " T-Ring	—									
	26	" " Snap Ring	—									
	27	" " Body	—									
	28											
	29	Slide Valve	—									
	30	" " Plate	—									
	31	" " Packing Strip	—									
	32	" " " "	—									
	33	" " " Spring	—									
	34	" " " "										
	35											
	36											
	37	Valve Rod	—									
	38	" " Key	—									
	39	" " Knuckle	—									
D	40	" " Pin	2	E-81642-C	STEEL		—	—	—	—	—	
D	41	" " Crosshead (APPLY STEEL LINERS)	2	942-A-148	MAT. ORD IN P.D	942-A-148	—	—	—	—	—	
P	42	" " " KEY	4	"	"	"	$\frac{3}{8}$"x$1\frac{5}{8}$"x$5\frac{1}{4}$" FIN SIZES	—	—	—	—	
	43											
D	44	Valve Stem	2	E-78898-D	MAT. ORD IN P.D STEEL	942-B-106	—	—	—	—	—	
D	45	" " ~~Bushing~~ KEYS	4	"	" STEEL		—	—	—	—	—	
P	46	" " ~~Guide~~ NUTS	4	"	" FURNISH SPLIT KEYS		—	—	—	—	—	
	47	" " Clamp	—									
	48	Valve Yoke	—									
	49											
	50											
	51											
	52	Valve Stem Packing										
	53	" " " Gland										
	54	" " " Babbit Ring										
	55	" " " " "										
	56	" " " Split Ring										
	57	" " " Spring										
	58	" " " " Case										
	59	" " " Swab Cup										
	60											
	61											

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 95—WHEELS								
	1	Driving Wheel Center No. 1 FRONT	2	D-72467-C 953-A-134	FURNISH RWETS	—	—	X-16783 95-452	—	—
	2	" " " No. 2 MAIN	2	D-72468-D 953-A-136	" "	—	—	X-16781 95-448	—	—
	3	" " " No. 3 INTER	2	D-72469-A-C 953-A-135	" "	—	—	X-16785 95-450	—	—
	4	" " " No. 4 BACK	2	D-72467-C 953-A-134	" "	—	—	X-16783 95-452	—	—
	5	" " " No. 5								
	6	" " Hub Liner								
	7	" " Tire—Flanged (FRONT & BACK)	4	F-80389-B 952-A-110	ORD. IN P.D	—	—	—	—	—
	8	" " "—Plain (INTER & MAIN)	4	F-72274-A 952-A-109	ORD. IN. P.D	—	—	—	—	—
	9	" " " Ret. Ring (F&B)	16	953-A-134	—	95-B-2	—	—	—	—
	10	Wheel Pressed on Axle (Tons)								
	11	DRIVING WHEEL RET. RING (MAIN)	8	953-A-136	—	95-B-2	—	—	—	—
	12	" " " " (INT)	8	953-A-135	—	95-B-2	—	—	—	—
	13	Trailing Wheel Center	2	D-80460-A. 953-A-142	—	—	—	X-11513. 95-75	—	—
	14	" " Hub Liner	—							
	15	" " Tire	2	952-B-110	ORD. IN P.D	—	—	—	—	—
	16	" " " Ret. Ring SEGEMENTS	8	953-A-142	—	95-C-2	—	—	—	—
	17	Wheel Pressed on Axle (Tons)								
	18	DRIVING & TRAILER TIRE RET. SEGEMENT RIVET	—	P.RR.PT# F-90417-A	RIV. ORD IN P.D	—	—	—	—	—
	19	Wheel—Engine Truck	4	PRR. PT# D-69759-F	ORD. IN P.D	—	—	—	—	—
	20	" —Pressed on Axle (Tons)								
	21	GROUP 96—WHISTLE ARRG'T.	1-SET.	PRR PT# E-46785-F	—	—	—	—	—	—
	22	Whistle	1	PURCHASED.	ORD. IN P.D FURNISHED BY. P.RR	—	—	—	—	—
	23	Whistle Bell		E-30320-A 962-A-113	—	—	—	—	X-6523 96-177	FORMULA #2
	24	" Valve		F-30323-B 962-A-120	FURNISH STEEL PIN	—	—	—	X-6528 96-61	" "
	25	" ~~Gland~~ VALVE NUT		F-30324-B 962-A-121	—	—	—	—	X-6527 96-60	" "
	26	" Nut		F-30322-B. 962-A-121	—	—	—	—	X-6533 96-62	" "
	27	" ~~Sleeve~~ BASE.		F-30327-A 962-A-115	—	—	—	—	X-6524 96-179	" "
	28	" ~~Mushey Tail~~ BASE PLATE.		F-30328-A 962-B-115	—	—	—	—	X-6534 96-180	" "
	29	" Lever	1	F-30325-B 962-A-116	~~CAST. ORD IN P.D~~ Furnished By. P.RR. Ord in P.D. cancell all machine work.	—	—	—	—	~~X-6382. 96-188~~
	30	" ~~" Eyebrow~~ CAP.		F-30326-A. 962-A-114	—	—	—	—	X-6532 96-178	FORMULA #2
	31	" ~~Arm~~ " STUD.		F-30330-A. 962-B-114	STEEL	—	—	—	—	—
	32	" ~~Stud~~ STUD		F-55993-C 962-C-117	STEEL	—	—	—	—	—
	33	" ~~" Bearing~~ BOLT.		F-55993-C. 962-B-117	—	—	—	—	—	—
	34	" " "								
	35	" ~~Rod~~ CHAIN ARRG'T.	1-SET.	P. PR PT.# D-80849-H	—	—	—	—	—	—
	36	" ~~Rope Handle~~ CHAIN GUIDE. (ON JACKET)	1	F-77757-E 122-A-77	ORD. IN. P.D FUR. BY. P.RR.	—	—	—	—	X-6572
	37	" ~~" Eye~~ CHAIN HOOK	1	F-52270-B 122-A79	" "	—	—	—	—	—
	38	" " ~~Thimble~~ " STIFFNER PLATE	1	P.RR. D-80849-H	- 3/8" X 5" X 5" PLATE	—	—	—	—	—
	39	" ~~Sheave~~ " EYE. (BACK OF CAB	1	#2 SCREW EYE.	COMERCIAL	—	—	—	—	—
	40	" ~~" Box~~								
	41	" ~~Elbow~~								
	42	" Extension								
	43	WHISTLE OPERATING CHAIN GUIDE	1	P.P.R.PT F-80813-B	(LOCATED ON HIP JOINT)	PRR PT. F-80813-B	—	—	—	—
	44	WHISTLE CONNECTION TO DOME.		D-48166-C 420-D-894	—	—	—	—	~~X-2967~~ 96-176	FORMULA #1.
	45	" " TO DOME VALVE		963-A-39	Ord in P.D. ~~Furnished by. P.R.R~~ cancell all machine work. & Hold up and cancell any castings not made.	—	—	—	~~X-938~~ 96-184	—
	46	" " " " STEM LOCK		"		—	—	—	~~X-939~~ STICK	—
	47	" " " " CAP		"		—	—	—	~~X-937~~ 96-182	—
	48	" " " " STEM		"		—	—	—	~~X-942~~ STICK	—
	49	DRIVING WHEEL COUNTER BALANCE PLATE	4	D-72467-C 953-A-134	(FRONT & BACK)	—	—	X-16784 95-453	—	—
	50	" " " " "	2	D-72468-D 953-A-136	(MAIN)	—	—	X-16782 95-449	—	—
	51	" " " " "	2	D-72469-A. 953-A-135	(INTER)	—	—	X-16786 95-451	—	—
	52	METHOD OF MARKING COUNTER BALANCE.	—	PRR. PT. F-48862-A.	—	—	—	—	—	—
	53									
	54	COUNTER BALANCE DESIRED FOR DRIV. WHEELS	—	P.RR.PT# E-76072-DE	M1-A. CLASS	—	—	—	—	—
	55	STAMPING OF WROT STEEL WHEELS	—	PRR. PT# F-79806-A	STAMPED BY MFGR.	—	—	—	—	—
	56	DETAIL OF NO'S & LETTERS FOR MARKING WHEELS.	—	P.R.R.PT# D15438-A	—	—	—	—	—	—
	57									
	58	WHISTLE CON. TO DOME - NUT		22047-B. 963-A-39	Furnished by PRR. Ord in P.D. cancell all Mach Work & any castings not Made	—	—	X-948 26-362	X-947 96-183	—
	59	" " " HANDLE		" "		—	—	—	—	—
	60	" " " WASHER		" "		—	—	—	X-940 STICK	—
	61	" " " JOINT RING	1	792-E-91	—	—	—	X-7592 79-865	—	—
	62	" " " GLAND		963-A-39	Furnished by P.R.R. Ord in P.D. cancell all Mach Work.	—	—	—	X-946 STICK	—

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 97—Prelim. Designs & Proposi'n								
	1									
	2									
	3									
	4	**GR. 98—Clear. & Wheel Base Diag'm**								
	5									
	6									
✓	7	✓ LOCATION OF MFGRS MARKING	1-SET ✓	PRR PT D-75543-A ✓	—	—	—	—	—	—
	8	**GROUP 99—MISCELLANEOUS**								
✓	9	✓ Billet List	1-SET ✓	992-A-279 ✓	—	—	—	—	—	—
	10	Booster	—							
	11	Booster King Pin Arrangement	—							
	12	" " " Ball Seat	—							
	13	" " "	—							
	14	" " " Washer	—							
	15	" " " Spring	—							
	16									
	17									
	18	Booster Throttle	—							
	19	" " Support	—							
	20	" " " Brake	—							
	21									
	22	Booster Pilot Valve Bracket	—							
	23	" Timing Reservoir Bracket	—							
	24									
	25									
	26	Booster Live Steam Elbow	—							
	27	" " " " Joint Ring	—							
	28	" " " " "	—							
	29	" " " "Y"	—							
	30	" " " Flanges	—							
	31									
	32									
	33									
	34									
	35									
	36	Booster Live Steam Joint Rings	—							
	37									
	38									
	39									
	40									
	41									
	42									
	43	Booster Live Steam Choke(Prelim. Valve Line)	—							
	44	" " " " (Lubricator)	—							
	45	" " " " Swivel	—							
	46	" " " " " Nut	—							
	47	" " " " (Steam Gauge Line)	—							
	48	" " " " Swivel	—							
	49	" " " " " Nut	—							
	50	" " " " (At Steam Gauge)	—							
	51	Booster Exhaust Pipe Elbow	—							
	52	" " " Coupling	—							
	53	" " " " Flange	—							
	54	" " " " Joint Ring	—							
	55	" " " " Sleeve	—							
	56	" " " " "	—							
	57	" " " " " Flange	—							
	58									
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Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 99—Miscellaneous (Cont.)								
	1	Booster Guide Bracket	—							
	2	" " "	—							
	3	" " " Rod	—							
	4	" " " Clamp	—							
	5	" " "	—							
	6	" " " Clamp	—							
	7	" " Pin	—							
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	17									
P	18	RECORD TAGS FOR FLUES ETC.	1-SET.	P.PR.PT. F-75729-B	SCRAP TIN. NO. REQ'D. & STAMPING TO SUIT P.R.R INSPECTORS		—	—	—	
	19									
	20									
P	21	BRASS FOUNDRY PRODUCTS	1-SET	P.R.R. PT # E-90160-A	—	—	—	—	—	—
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	53									
	54	Speed Recorder Rigging								
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	61									

FOR Breakage only.

(Group 99 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 99—Miscellaneous (Cont.)								
	1									
P	2	UNIVERSAL JOINT BODY (AUTOMATIC CYL. COCKS)	2	E-80520-C 262-A-288	FURNISH. BOLTS & PINS ETC	—	—	—	X-9288 26-355	FORMULA #2
P	3	" " LINK (" ")	1	" "	—	—	—	—	X-9287 26-354	" #2
P	4	" " ROD (" ")	1	" "	1/2" W.I. PIPE	—	—	—	—	—
P	5	" " HANDLE (" ")	1	" "	FURNISHED WITH VALVE ORD IN P.D	—	X-827	—	—	—
	6									
P	7	UNIVERSAL JOINT BODY. (FEED WATER HEATER)	2	262-B-288	FURNISH BOLTS & PINS ETC	—	—	—	26-355	FORMULA #2
P	8	" " LINK (" ")	1	" "	—	—	—	—	26-354	" #2
P	9	" " ROD (" ")	1	" "	1/2". W.I. PIPE	—	—	—	—	—
P	10	" " HANDLE (" ")	1	" "	FURNISHED WITH VALVE ORD IN P.D	X-967	—	—	—	—
	11									
P	12	UNIVERSAL JOINT BODY (GAUGE COCKS)	2	262-C-288	FURNISH. BOLTS & PINS. ETC	—	—	—	26-355	FORMULA #2
P	13	" " LINK (" ")	1	" "	—	—	—	—	26-354	" #2
P	14	" " ROD (" ")	1	" "	1/2". W. I. PIPE	—	—	—	—	—
P	15	" " HANDLE (" ")	1	" "	FURNISHED. WITH VALVE. ORD. IN P.D.	X-852	—	—	—	—
	16									
P	17	UNIVERSAL JOINT BODY (LUBRICATOR & CYL. COCKS)	2	262-D-288	FURNISH BOLTS & PINS. ETC.	—	—	—	26-355	FORMULA #2
P	18	" " LINK (" ")	1	" "	—	—	—	—	26-354	" #2
P	19	" " ROD (" ")	1	" "	1/2". W.I. PIPE	—	—	—	—	—
P	20	" " HANDLE (" ")	1	" "	FURNISHED. WITH VALVE. ORD. IN. P.D-	X-948	—	—	—	—
	21									
P	22	UNIVERSAL JOINT BODY (INJECTOR L.S.)	2	262-E-288	FURNISH BOLTS & PINS ETC	—	—	—	26-355	FORMULA #2
P	23	" " LINK (" ")	1	" "	—	—	—	—	26-354	FORMULA #2
P	24	" " ROD (" ")	1	" "	1/2" W.I. PIPE.	—	—	—	—	—
P	25	" " HANDLE (" ")	1	" "	FURNISHED. WITH VALVE ORD IN P.D.	X-6435	—	—	—	—
	26									
P	27	UNIVERSAL JOINT BODY (F.W. HEATER SUC. THAW. OUT.)	2	262-F-288	FURNISH. BOLTS & PINS. ETC.	—	—	—	26-355	FORMULA #2
P	28	" " LINK (" ")	1	" "	—	—	—	—	26-354	" #2
P	29	" " ROD (" ")	1	" "	1/2". W. I. PIPE	—	—	—	—	—
P	30	" " HANDLE (" ")	1	" "	FURNISHED. WITH. VALVE ORD IN. P.D.	X-827	—	—	—	—
	31									
P	32	UNIVERSAL JOINT BODY. (FEED WATER HEATER. ENG'S OPER. VALVE)	2	262-H 288	FURNISH BOLTS. & PINS. ETC.	—	—	—	26-355	FORMULA #2
P	33	" " LINK (" ")	1	" "	—	—	—	—	26-354	" " #2
P	34	" " ROD (" ")	1	" "	1/2". W. I. PIPE.	—	—	—	—	—
P	35	" " HANDLE (")	1	" "	FURNISHED WITH. VALVE. ORD. IN P. D.	—	—	—	—	—
	36									
P	37	UNIVERSAL JOINT BODY. (GAUGE COCKS)	2	262-J-288	FURNISH. BOLTS & PINS. ETC	—	—	—	26-355.	FORMULA #2
P	38	" " LINK (" ")	1	" "	—	—	—	—	26-354	" #2
P	39	" " ROD (" ")	1	" "	1/2". W.I. PIPE	—	—	—	—	—
P	40	" " HANDLE (" ")	1	" "	FURNISH WITH VALVE. ORD. IN P.D	X-852	—	—	—	—
	41									
P	42	UNIVERSAL JOINT. BODY (GAUGE COCKS)	2	262-K-288	FURNISH. BOLTS & PINS. ETC	—	—	—	26-355.	FORMULA #2
P	43	" " LINK (" ")	1	" "	—	—	—	—	26-354	" #2
P	44	" " ROD (" ")	1	" "	1/2" W.I PIPE	—	—	—	—	—
P	45	" " HANDLE (" ")	1	" "	FURNISH. WITH. VALVE. ORD. IN P. D	X-852	—	—	—	—
	46									
P	47	UNIVERSAL JOINT. BODY (~~STEAM~~ Stoker HEAT)	2	262-~~K~~ E-200	FURNISH BOLTS & PINS. ETC	—	—	—	26-355	FORMULA #2
P	48	" " LINK (" ")	1	" " "	—	—	—	—	26-354	" #2
P	49	" " ROD (" ")	1	" " "	1/2". W.I. PIPE	—	—	—	—	—
P	50	" " HANDLE (" "	1	" " "	FURNISH WITH VALVE ORD IN P.D	X-967	—	—	—	—
	51									
P	52	UNIVERSAL JOINT BODY (DYNAMO)	2	262-A-200	FURNISH. BOLTS & PINS. ETC	—	—	—	26-355	FORMULA #2
P	53	" " LINK (" ")	1	" "	—	—	—	—	26-354	" #2
P	54	" " ROD (" ")	1	" "	1/2" W. I. PIPE.	—	—	—	—	—
P	55	" " HANDLE (" ")	1	" "	FURNISH. WITH VALVE. ORD. IN P.D	X-948	—	—	—	—
	56									
P	57	INJECTOR STARTING VALVE ROD	1	TO SUIT E.S		—	TO SUIT ES		—	—
→ P	58	UNIVERSAL JOINT HANDLE	2	262-A-207	FURNISH BOLTS & PINS ETC	—	26-362	—	26-355	FORMULA #2
P	59	UNIVERSAL JOINT. BODY (Blower)	2	262-H-200		—	—	—	26-354	" #2
P	60	" " LINK "	1	" "		—	—	—	—	—
P	61	" " ROD "	1	" "	1/2" W. I. PIPE	—	—	—	—	—
P	62	" " HANDLE "	1	" "	FURNISH. WITH VALVE. ORD IN P.D	X-948	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 99—Miscellaneous (Cont.)								
	1									
	2									
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Material Specifications